Received by OCD: 3/17/2021 8:52:0.	3 AM		Page 1 of 25
District I	State of New Mex	ico	Form C-144
1625 N. French Dr., Hobbs, NM 88240	Energy Minerals and Natural		July 21, 2008
District II	Department	For temporary pits, closed-loop	-
1301 W. Grand Ave., Artesia, NM 88210	Oil Conservation Div	ision tanks, submit to the appropriate N	
District III	1220 South St. Franci		
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 875	05 For permanent pits and exception	ns submit to the Santa Fe
District IV 1220 S. St. Francis Dr., Santa Fe, NM 875	15	Environmental Bureau office and appropriate NMOCD District Offi	provide a copy to the ce.
	Pit, Closed-Loop System, Be		and the second so there are the
Pror			
	osed Alternative Method Permit		
Type of action	X Permit of a pit, closed-loop system, b	elow-grade tank, or proposed alternative	method
		below-grade tank, or proposed alternative	
BGT 1	Modification to an existing permit		
		isting permitted or non-permitted pit, clo	and In an emitire
	below-grade tank, or proposed alterna	tive method	sed-loop system,
Instructions: Please submit on	e application (Form C-144) per individual p		
Please be advised that approv	al of this request does not relieve the operator of liability she	u, cioseu-ioop system, below-graae tank	or alternative request
environment. Nor does approval	relieve the operator of its responsibility to comply with any	other applicable governmental authority's rules regular	ind water or the
1			ions of ordinances.
Operator: Burlington Resources	Oil & Gas Company, LP	OGRID#: 14538	
Address: PO Box 4289, Farmin	gton, NM 87499		
Facility or well name: MARCOT	TE 1		
API Number:	200.451.0000		
		ermit Number:	
		ange: 10W County: San Juan	
Center of Proposed Design: Latit		itude: NA	D: X 1927 1983
Surface Owner: Federal	State X Private Tribal Tr	ust or Indian Allotment	
Permanent Emergency Lined Unlined	orkover Cavitation P&A Liner type: Thickness mil I	LLDPE HDPE PVC Other	Wx D
Type of Operation: P&A	notice of intent)	(Applies to activities which require prior app 	roval of a permit or
Tank Construction material: Secondary containment with leak Visible sidewalls and liner Liner Type: Thickness	bbl Type of fluid: Produced Water Metal letection X Visible sidewalls, liner, 6-inch Visible sidewalls only Other	lift and automatic overflow shut-off Other <u>Unspecified</u>	
5 Alternative Method: Submittal of an exception request is re	quired. Exceptions must be submitted to the Santa	Fe Environmental Bureau office for consider	ation of approval.
Form C-144	Oil Conservation Di	vision	
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ived by OCD: 3/17/2021 8:52:03 AM		Page
<ul> <li>Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)</li> <li>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,</li> <li>Four foot height, four strands of barbed wire evenly spaced between one and four feet</li> <li>Attended to the strands of the s</li></ul>	institution or c	hurch)
X Alternate.         Please specify         4' hog wire fencing topped with two strands barbed wire.	~ ~ ~ ~ ~ ~ ~ ~	
X       Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)         X       Screen       Netting       Other         Monthly inspections (If netting or screening is not physically feasible)	1. 1	
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:         X         Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for configered (Fencing/BGT Liner)	onsideration of	approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
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.	Yes	XNo
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	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	XNo
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>(Applied to permanent pits)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	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 confirmation or verification from the municipality; Written approval obtained from the municipality	Yes	XNo
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes	XNo
	Yes	XNo
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> </ul>		
	Yes	XNo

Form C-144

Oil Conservation Division

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
instructions. Each of the jollowing tiems must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
i 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
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
12 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 19.15.17.10 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
13
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17 11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Nuisance or Hazardous Odors, including H2S, Prevention Plan
Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14 Proposed Closure: 19.15.17.13 NMAC
instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
ype: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
(Delow-Grade Tank)
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
S Note Francisco I De la Cita da Cita
Vaste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
in the box, that the box, that the abcuments are attached.
and appropriate requirements of 19.15.17.15 MMAC
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
<b>X</b> Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
X Soil Backfill and Cover Design Specifications - 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 Princ 3 of 5

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16 Waste Removal Closure For Closed-loop Systems That U Instructions: Please identify the facility or facilities for the d	tilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) isposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two f	acilities					
are required.							
Disposal Facility Name:	Disposal Facility Permit #:						
Disposal Facility Name: Disposal Facility Permit #: Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?							
Yes (If yes, please provide the information       No         Required for impacted areas which will not be used for future service and operations:							
	based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA	C					
	requirements of Subsection I of 19.15.17.13 NMAC						
Site Reclamation Plan - based upon the appropria	aite requirements of Subsection G of 19.15.17.13 NMAC						
certain siting criteria may require administrative approval from th	<b>only:</b> 19.15.17.10 NMAC pliance in the closure plan. Recommendations of acceptable source material are provided beli be appropriate district office or may be considered an exception which must be submitted to the ns of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	e Santa Fe Environmental Bureau office					
Ground water is less than 50 feet below the bottom of t		Yes No					
- NM Office of the State Engineer - iWATERS databas	e search; USGS: Data obtained from nearby wells						
Ground water is between 50 and 100 feet below the bo		Yes No					
- NM Office of the State Engineer - iWATERS database	e search; USGS; Data obtained from nearby wells	N/A					
Ground water is more than 100 feet below the bottom of	of the buried waste.	Yes No					
- NM Office of the State Engineer - iWATERS database	e search; USGS; Data obtained from nearby wells	N/A					
Within 300 feet of a continuously flowing watercourse, or 20 measured from the ordinary high-water mark).	00 feet of any other significant watercourse or lakebed, sinkhole, or playa lake	Yes No					
- Topographic map; Visual inspection (certification) of							
<ul> <li>Within 300 feet from a permanent residence, school, hospita</li> <li>Visual inspection (certification) of the proposed site; A</li> </ul>	I, institution, or church in existence at the time of initial application.	Yes No					
- visial inspection (certification) of the proposed site, A	erial photo, satellite initige	Yes No					
Within 500 horizontal feet of a private, domestic fresh water purposes, or within 1000 horizontal fee of any other fresh wa - NM Office of the State Engineer - iWATERS database	well or spring that less than five households use for domestic or stock watering ater well or spring, in existence at the time of the initial application.						
	ed municipal fresh water well field covered under a municipal ordinance adopted	Yes No					
- Written confirmation or verification from the municipation	ality; Written approval obtained from the municipality						
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map: Ton	ographic map; Visual inspection (certification) of the proposed site	res no					
Within the area overlying a subsurface mine.	-Brahme much, . maar machanan (	Yes No					
- Written confirantion or verification or map from the N	M EMNRD-Mining and Mineral Division						
Within an unstable area.		Yes No					
<ul> <li>Engineering measures incorporated into the design; NM Topographic map</li> </ul>	M Bureau of Geology & Mineral Resources; USGS; NM Geological Society;						
Within a 100-year floodplain.		Yes No					
- FEMA map							
by a check mark in the box, that the documents are a		re plan. Please indicate,					
	sed upon the appropriate requirements of 19.15.17.10 NMAC						
	e appropriate requirements of Subsection F of 19.15.17.13 NMAC						
	pplicable) based upon the appropriate requirements of 19.15.17.11 NMAC	0 15 17 11 NMAC					
	in place burial of a drying pad) - based upon the appropriate requirements of 1	19.15.17.11 NMAC					
Protocols and Procedures - based upon the appr	sed upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC						
	appropriate requirements of Subsection F of 19.15.17.13 NMAC						
	r liquids, drilling fluids and drill cuttings or in case on-site closure standards ca	nnot be achieved)					
	requirements of Subsection H of 19.15.17.13 NMAC						
	e 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							

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Oil Conservation Division

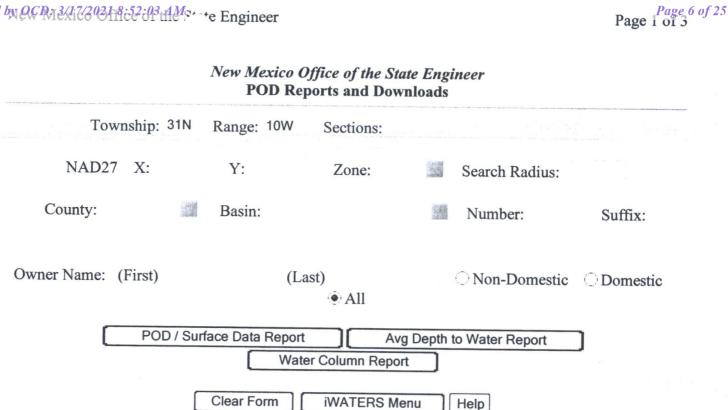
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20	Application (including closure plan)	Date: Telephone:	Regulatory Technician 12/22/2008 505-326-9837	
20 DCD Approval: Permit	rystal tatoya @ conocophilling.com	Telephone:		
20 DCD Approval: Permit		a bi manana		
OCD Approval: Permit	Application (including closure plan)			
	Application (including closure plan)			
CD Representative Signatu	O o lu	-	OCD Conditions (see attachment)	
,	re:CRWhitehea	ed	Approval Date: August 9, 202	1
itle: Environmer	atal Spacialist			
Environmen	ntal Specialist	OCD Pern	it Number:BGT 1	_
21				
Closure Report (required wit	hin 60 days of closure completion): Su	bsection K of 19.15.17.13 NMAC		
period a required to be submitted	to the atvision within ou days of the complete	tion of the closure activitie	re activities and submitting the closure report. The closure E. Please do not complete this section of the form until an	
pproved closure plan has been of	btained and the closure activities have been	completed.	. Freuse up not complete this section of the form until an	
		Closure	Completion Date:	
2				
losure Method:				
Waste Excavation and Ren		Alternative Closure	Method Waste Removal (Closed-loop systems only)	
If different from approved	plan, please explain.			
osure Report Regarding Waste	Removal Closure For Closed-loop System	ns That Utilize Above Gro	und Steel Tanks or Haul-off Bins Only:	
structions: Please identify the fa are utilized.	acility or facilities for where the liquids, dri	lling fluids and drill cuttin	gs were disposed. Use attachment if more than two facilitie.	5
Disposal Facility Name:		Disposal Facility I	Permit Number	
Disposal Facility Name:		Disposal Facility I		
Were the closed-loop system op	erations and associated activities performed	on or in areas that will not	be used for future service and opeartions?	
Yes (If yes, please demonst		No	the and open toris:	
Required for impacted areas wh	ich will not be used for future service and o	perations:		
Site Reclamation (Photo Do Soil Backfilling and Cover )				
	Rates and Seeding Technique			
<b>Closure Report Attachment</b>	Checklist: Instructions: Each of the foll	owing items must be attack	ned to the closure report. Please indicate, by a check mark i	
	************	and the second second second	teu to the closure report. Please indicate, by a check mark i	n
	surface owner and division)			
Proof of Deed Notice (req Plot Plan (for on-site closu				
	nalytical Results (if applicable)			
Disposal Facility Name an	Analytical Results (if applicable)			
Soil Backfilling and Cover				
	Rates and Seeding Technique			
Site Reclamation (Photo D				
On-site Closure Location:	Latitude:	Longitude:	NAD 1927 1983	
			NAD [ 1927 [ 1983	

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#### WATER COLUMN REPORT 12/12/2008

Image: fight rest and biggest to smallest)         Depth         Depth         Depth         Colum           SJ 00498         31N         10W         04         1         2         26         8         1           SJ 03062         CLW263578         31N         10W         04         1         2         26         8         1           SJ 03062         SIN         10W         04         1         2         2         55         46           SJ 03062         31N         10W         04         1         2         37         21         1           SJ 00573         31N         10W         04         1         4         37         12         2           SJ 00573         31N         10W         04         1         4         37         12         2           SJ 00573         31N         10W         04         1         4         37         12         2           SJ 00595         31N         10W         04         1         2         90         12         7           SJ 00595         31N         10W         04         1         2         70         10         6
POD Number       Tws       Rng Sec q q q q       Zone       X       Y       Well       Water       Colum         SJ 00498       31N       10W 04       1 2       26       8       1         SJ 03062       CLW263578       31N       10W 04       1 2 2       47       40         SJ 03062       31N       10W 04       1 2 2       55       46         SJ 03062       31N       10W 04       1 2 4       37       21       1         SJ 00573       31N       10W 04       1 4 2       90       12       27         SJ 00595       31N       10W 04       1 4 2       90       12       7         SJ 00595 S       31N       10W 04       1 4 2       70       10       6         SJ 00175       31N       10W 04       2       28       13       1
SJ 00498       31N       10W 04       1 2       26       8       1         SJ 03062       CLW263578       31N       10W 04       1 2 2       47       40         SJ 03062       31N       10W 04       1 2 2       55       46         SJ 02844       31N       10W 04       1 2 4       37       21       1         SJ 00573       31N       10W 04       1 4 2       90       12       7         SJ 00595       31N       10W 04       1 4 2       90       12       7         SJ 00595       31N       10W 04       1 4 2       90       12       7         SJ 00595       31N       10W 04       1 4 2       70       10       6         SJ 00175       31N       10W 04       2       28       13       1
SJ 03062 CLW263578       31N       10W       04       1       2       47       40         SJ 03062       31N       10W       04       1       2       55       46         SJ 02844       31N       10W       04       1       2       37       21       1         SJ 02844       31N       10W       04       1       2       47       40         SJ 00573       31N       10W       04       1       2       37       21       1         SJ 00595       31N       10W       04       1       4       2       90       12       7         SJ 00595       31N       10W       04       1       4       2       70       10       6         SJ 00175       31N       10W       04       2       28       13       1
SJ 02844       31N       10W       04       1       2       46         SJ 00573       31N       10W       04       1       2       1       1         SJ 00595       31N       10W       04       1       4       37       12       2         SJ 00595       31N       10W       04       1       4       2       90       12       7         SJ 00595       31N       10W       04       1       4       2       70       10       6         SJ 00175       31N       10W       04       2       28       13       1
SJ 02844       31N       10W       04       1       2       4       37       21       1         SJ 00573       31N       10W       04       1       4       37       12       2         SJ 00595       31N       10W       04       1       4       2       90       12       7         SJ 00595       31N       10W       04       1       4       2       70       10       6         SJ 00175       31N       10W       04       2       28       13       1
SJ 00573       31N       10W       04       1       4       37       12       2         SJ 00595       31N       10W       04       1       4       2       90       12       7         SJ 00595       31N       10W       04       1       4       2       90       12       7         SJ 00595       31N       10W       04       1       4       2       70       10       6         SJ 00175       31N       10W       04       2       28       13       1
SJ 00595       31N       10W       04       1       4       2       90       12       7         SJ 00595       S       31N       10W       04       1       4       2       90       12       7         SJ 00595       S       31N       10W       04       1       4       2       70       10       6         SJ 00175       31N       10W       04       2       28       13       1
SJ 00595 S         31N 10W 04 1 4 2         70         10         €           SJ 00175         31N 10W 04 2         28         13         1
<b>SJ 00175</b> 31N 10W 04 2 28 13 1
<b>SJ 01563</b> 31N 10W 04 2 1 44 28 1
<b>SJ 03033</b> 31N 10W 04 2 1 1 52 30
<b>SJ 02089</b> 31N 10W 04 2 1 1 55 40 1
<b>SJ 03034</b> 31N 10W 04 2 1 2 45 23
<b>SJ 01564</b> 31N 10W 04 2 2 34 10 2
<b>SJ 00128</b> 31N 10W 04 2 2 70 21
SJ 03807 POD1 31N 10W 04 3 4 4 270694 2154911 250 120 13
<b>SJ 02044</b> 31N 10W 05 1 3 22 12 1
<b>SJ 01370</b> 31N 10W 05 1 3 2 48 28
<b>SJ 01967 X</b> 31N 10W 05 1 3 2 25 10 1
<b>SJ 02843</b> 31N 10W 05 1 3 2 25 10 1
<b>SJ 02044 X</b> 31N 10W 05 1 3 4 28 14 1
<b>SJ 02069</b> 31N 10W 05 2 2 1 22 9 1
<b>SJ 02083</b> 31N 10W 05 2 2 1 23 10 1
<b>SJ 03013</b> 31N 10W 05 2 2 3 19 7 1
<b>SJ 03109</b> 31N 10W 05 2 2 3 21 2 1
<b>SJ 03004</b> 31N 10W 05 2 2 4 18 6 1
<b>SJ 03368</b> 31N 10W 05 2 2 4 19 6 1
<b>SJ 02945</b> 31N 10W 05 2 2 4 17 5 1
<b>SJ 02884</b> 31N 10W 05 2 4 4 75

# Released to Imaging: 8/9/2021 10:28:19 AM 01/iWATERS/WellAndSurfaceDispatcher

# Received by QC PA 3/47/2031 8:52:03 14MS+~te Engineer

SJ 03549	31N	10W 0			4 4				42	35	
SJ 00304	31N	10W 0			4				18	5	1
SJ 02399	31N	10W 0			4 1				40	14	2
SJ 02944	31N	10W 0			4 2				100		
SJ 03112	31N	10W 0			4 2				45	33	1
SJ 01373 X	_ 31N	10W 0			4 3				35	10	2
SJ 02037	31N	10W 0			3				39	11	2
SJ 01373	31N	10W 0			3				6	3	
SJ 02107 SJ 03452	31N	10W 0			3				35	16	1
	31N	10W 0			4 2				61	30	2
SJ 03246 SJ 03336	31N 31N	10W 0			4 3				65	15	5
SJ 01958	31N	10W 0. 10W 0			4 3				58	28	
SJ 01958	31N	10W 0		2	3				103	83	2
SJ 03308	31N	10W 0			4 3				93	33	E
SJ 02150	31N	10W 0			2				100	60	4
SJ 02389	31N	10W 0'			2 3				41 48	23 31	1 1
SJ 03079	31N	10W 0'			2 3				50	21	1
SJ 03330	31N	10W 0'			3 1				400		
SJ 01521	31N	10W 0'		4	-				400	29	1
SJ 03802 POD1	31N	10W 0'		4 3	3 2	269793	3 214	19984	41	24	1
SJ 00585	31N	10W 08			-	100700		15501	40	23	1
SJ 02304	31N	10W 08		1 2	2				35	29	1
SJ 03057	31N	10W 08	3	1 3	3 4				19	6	1
SJ 03714 POD1	31N	10W 08		3 1					21	6	1
SJ 00054	31N	10W 10	)	2					455	0	-
SJ 00830 -EXPLOR	31N	10W 15	5	3					550		
SJ 01198	31N	10W 17	7	3 4					158	97	E
SJ 02624	31N	10W 18	3	1 1					295	125	17
SJ 01616	31N	10W 18	3	1 3	3				18	8	1
SJ 01534	31N	10W 18	3	1 3	3 1				34	23	1
SJ 03345	31N	10W 18		1 3					21	11	1
SJ 01796	31N	10W 18			3				32	20	1
SJ 01598	31N	10W 18		1 4					30	5	2
SJ 01587	31N	10W 18		1 4					35	5	3
SJ 01747	31N	10W 18		1 4	-				20	6	1
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SJ 03324	31N	10W 18		2 3	-	269778	214	8065	16	6	1
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SJ 03474	31N	10W 18			2				21 35	1	2
SJ 01500	31N	10W 18		3 1					26	15	1
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SJ 03114	31N	10W 18	1.1	3 2	1				16	8	
SJ 02749	31N	10W 18	1.1	3 2	2				16	10	
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SJ 03435	31N	10W 18	3	3 2	3				10	6	
SJ 03622	31N	10W 18	(1)	3 2	3				20	6	1
SJ 00611 S	31N	10W 18	(*)	3 3					65	25	4
SJ 00611	31N	10W 18	3	3 3	3				58	46	1
SJ 00555 CLW225581	31N	10W 19	1						70	45	2
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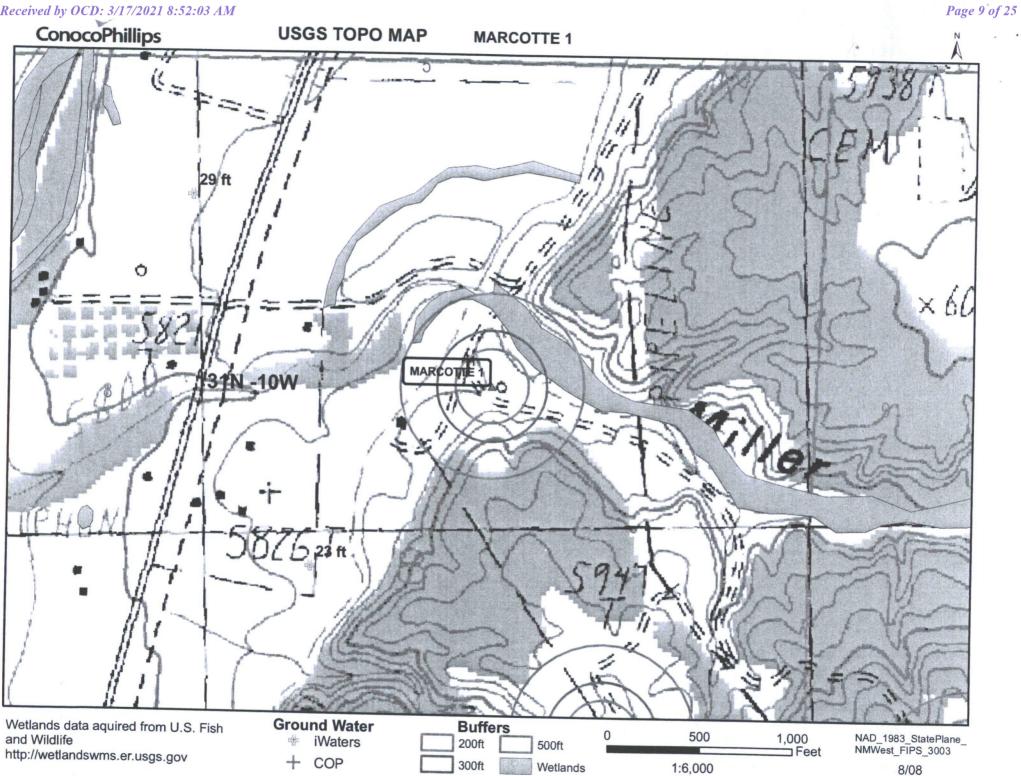
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SJ 01428	31N	10W 19	1	3		65	45	2
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SJ 01480	31N	10W 34	2	1		245	125	12
SJ 03624	31N	10W 34	2	1	2	165	65	10
SJ 03387	31N	10W 34	2	2	1	250	200	E
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SJ 03544	31N	10W 35	1	4	4	325	220	10
SJ 03571	31N	10W 35	1	4	4	250		_ •
SJ 03576	31N	10W 35	2	3	3	450	137	31
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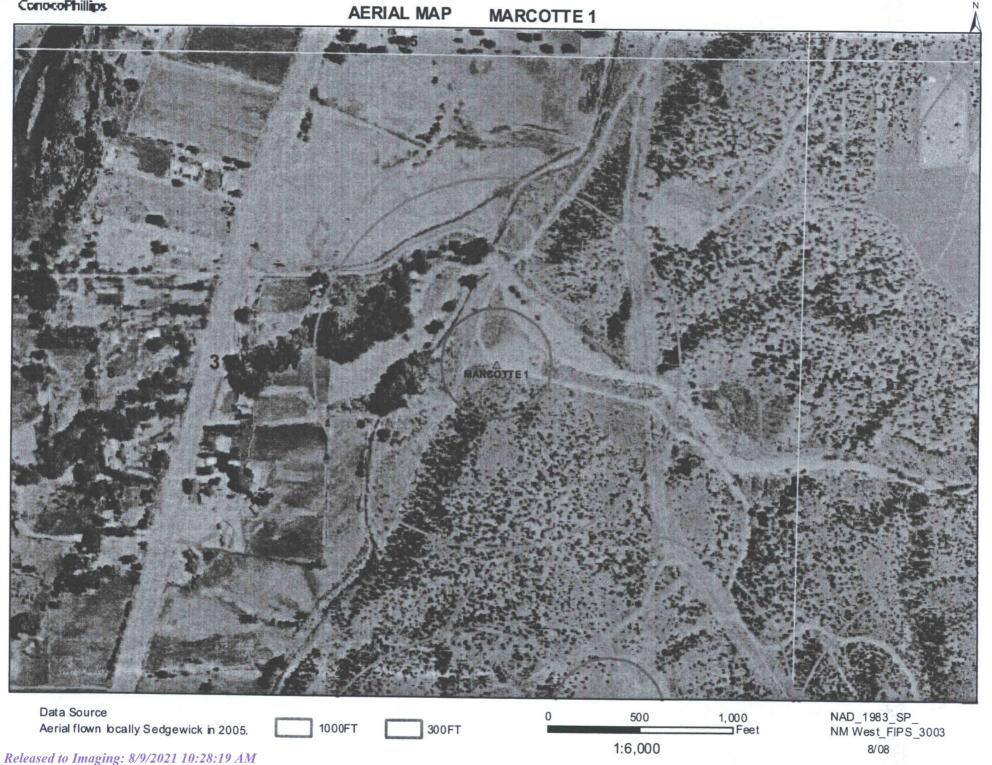


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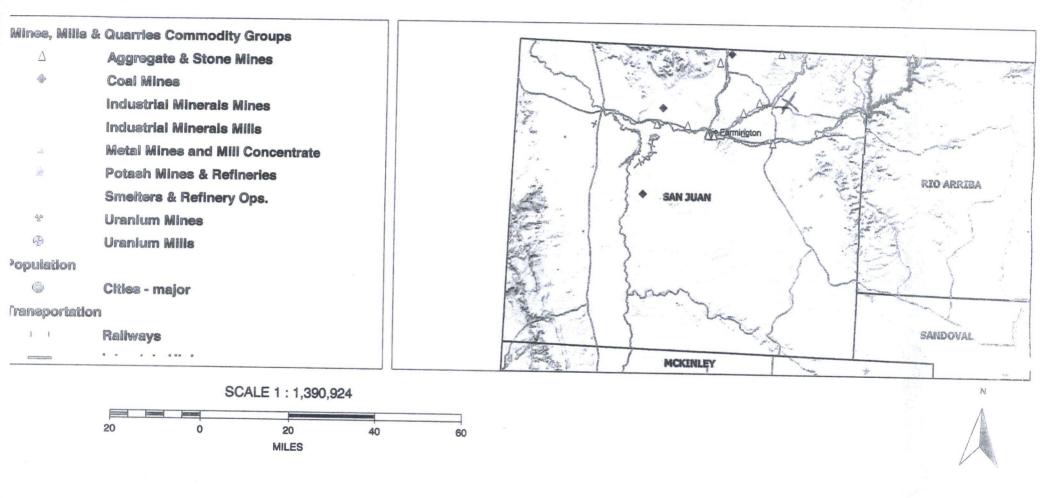
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## ConocoPhillips

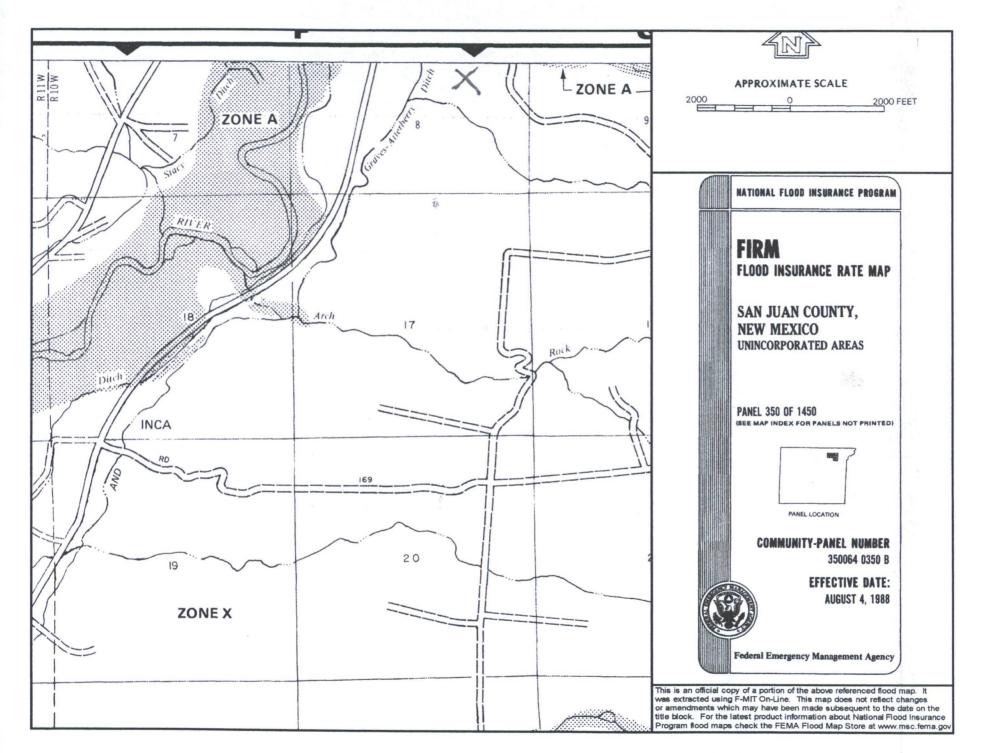
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# MARCOTTE 1

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'MARCOTTE 1', which is located at 36.91548 degrees North latitude and 107.90187 degrees West longitude. This location is located on the Cedar Hill 7.5' USGS topographic quadrangle. This location is in section 8 of Township 31 North Range 10 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Cedar Hill, located 1.8 miles to the northeast. The nearest large town (population greater than 10,000) is Farmington, located 21.0 miles to the southwest (National Atlas). The nearest highway is US Highway 550, located 0.3 miles to the west. The location is on Private land and is 1,114 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Animas. Colorado, New Mexico, Sub-basin. This location is located 1790 meters or 5871 feet above sea level and receives 12 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 43 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 248 feet to the northeast and is classified by the USGS as an intermittent stream. The nearest perennial stream is 597 feet to the northwest. The nearest water body is 5,410 feet to the northeast. It is classified by the USGS as an intermittent lake and is 0.1 acres in size. The nearest spring is 8,192 feet to the northeast. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 1,460 feet to the southwest. The nearest wetland is a 31.0 acre Ravine located 114 feet to the northeast. The slope at this location is 9 degrees to the north as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is MODERN ALLUVIUM--Includes Pinev Creek Alluvium and vounger deposits with a Quaternary age younger alluvium and surficial deposits substrate. The soil at this location is 'Blancot-Notal association, gently sloping' and is well drained and not hydric with moderate erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 3.3 miles to the north as indicated on the Mines. Mills and Quarries Map of New Mexico provided.

**Regional Geological context:** 

Quaternary and recent deposits in the San Juan Basin include stream-deposited alluvium and older terrace deposits, landslide deposits, and Aeolian sand. Most Quaternary and younger deposits area unconsolidated and form a thin covering over older bedrock sediments.

Stream-deposited alluvium and older terrace deposits are associated with major streams and rivers in the San Juan Basin. The alluvium consists of unconsolidated sediments that range from silt to cobbles in size but predominantly are sand and gravel. Along major streams the alluvium is varied in composition, depending on the mix of material from the various erosion source areas and fluvialy-driven sorting. Alluvial deposits also occur as a thin veneer of fine-grained sediments in the valleys of intermittent streams. Landslide deposits are mapped on the northeastern flank of the Chuska Mountains and locally in the San Juan Mountains. These colluvial deposits consist of material derived from the topographically higher source areas. The landslide material on the flank of Chuska Mountains consists of reworked sand from the Chuska Sandstone; the deposits in the San Juan Mountains primarily are derived from volcanic or volcaniclastic sources.

Unconsolidated wind-blown deposits are common in the central part of the basin, although they generally are not mapped on small scale geologic maps. Typically, these deposits are very thin, but local dunes near dry washes, which are excellent sources of fine-grained material, may reach heights of 20 feet. These recent Aeolian deposits are not known to yield water to wells.

#### Hydraulic Properties:

In the absence of other sources of water, alluvial deposits, where present, are commonly relied upon as a source of water for domestic and livestock use. Along the major rivers and streams, wells are of conventional vertical design, whereas in the valleys of intermittent streams, where the hydraulic conductivities and saturated thickness are generally small, most wells are constructed as galleries of horizontal drains feeding to a central collector. Reported well yields range from less than 1 gallon per minute to as much as 1,100 gallons per minute. The median yield of 48 wells is 15 gallons per minute. Hydraulic conductivities of sand and gravel can vary from 10 to 1,000,000 gallons per day per foot squared (roughly 1 to 100,000 feet per day) (Freeze and Cherry, 1979, table 2.2.) but a more typical range is from 15 feet per day for fine sand to about 1,000 feet per day for coarse gravel (Lohman, 1972, table 17). Tests along the San Juan River upstream from Farmington indicate that the hydraulic conductivity of alluvium ranges from 0.006 to 220 feet per day (Peter et al, 1987, p. 29). The thickness of alluvium at this site was reported to range from about 14 to 61 feet, and the saturated thickness was less than 25 feet in all 13 test holes. Water occurs in the alluvium under unconfined conditions. No tests have been made where the storage coefficient of the alluvium was determined. However, a typical specific yield for moderate to well-sorted unconsolidated sediments would be in the range of 0.1 to 0.25.

No known hydraulic data exists for the landslide and recent Aeolian deposits in the basin. No instances are known where these deposits are used as a source of water.

#### References:

Freeze, R.A., and Cherry, J.A., 1979, Groundwater: Englewood cliffs, N.J., Prentice-Hall, Inc., 604 p. Lohman, S.W., 1972, Ground-water hydraulics: U.S.G.S. Professional Paper 708, 70 p. Peter, K.D., Williams, R.A., and King, K.W., 1987, Hydrogeologic characteristics of the Lee Acres landfill area, San Juan County, New Mexico: U.S.G.S. Water Resources Investigations Report 87-4246, 69 p.

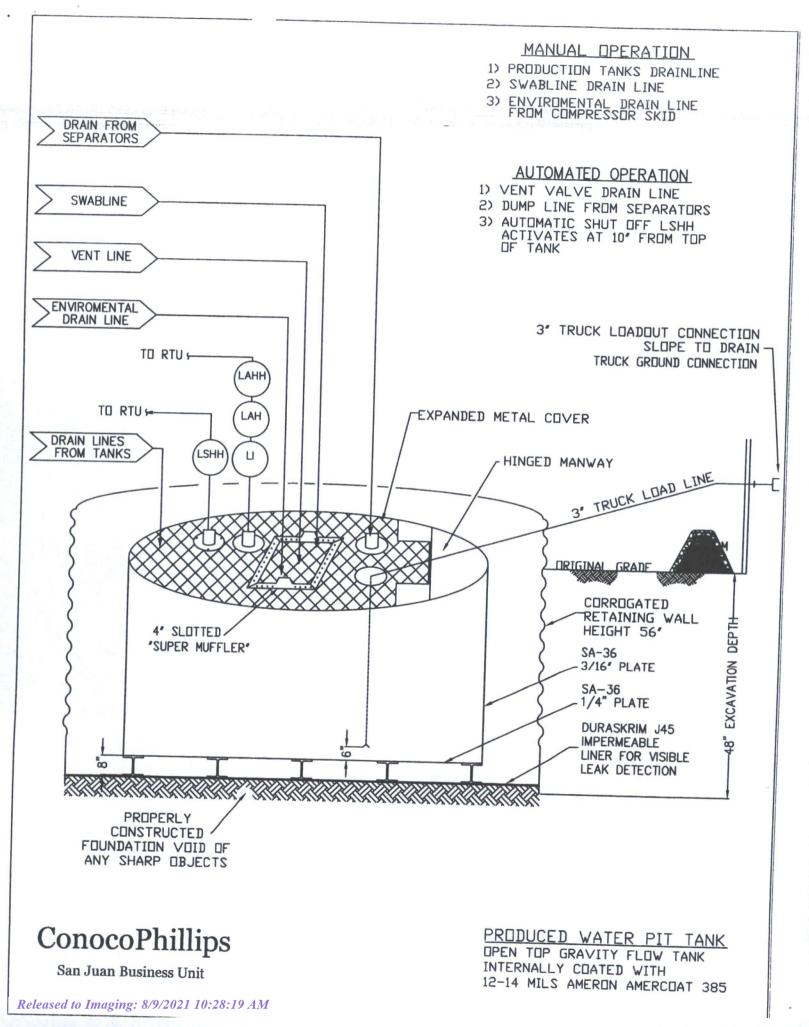
# Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does not conform to this plan.

#### General Plan:

- 1. BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- 2. BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

- 9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the BR MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from BR's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- 11. The general specification for design and construction are attached in the BR document.





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PROPERTIES	TEST METHOD	, L	30BB	J3	6BB	J4	5BB
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Rol Averages
Appearance		Blac	ck/Black	Black	/Black		/Black
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)
Construction		**Ext	rusion laminated	with encapsula			
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs
1* Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
Maximum Use Temperature		180° F					
Minimum Use Temperature		-70° F					

MD = Machine Direction DD = Diagonal Directions

Note: Minimum Roll Averages are set to take into account product variability in addition to testing variability between laboratories.

\*Dimensional Stability Maximum Value

\*\*DURA-SKRIM J30BB, J36BB & J45BB are a four layer reinforced laminate containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. DURA-SKRIM J30BB, J36BB & J45BB are reinforced with a 1300 denier (minimum) tri-directional scrim reinforcement.

Note: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.



# PLANT LOCATION

Sioux Falls, South Dakota

# SALES OFFICE

P.O. Box 5107 Sioux Falls, SD 57117-5107 (605) 335-0174 (605) 331-0333 FAX **800-635-3456** 

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# RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

Raven Industries Inc. warrants Dura-Skrim J30BB, J36BB, and J45BB to be free from manufacturing defects and to be able to withstand normal exposure to sunlight for a period of 20 years from the date of sale for normal use in approved applications in the U.S and Canada, excluding Hawaii. This warranty is effective for products sold and shipped from January 1, 2008 to December 31, 2008.

This Limited Warranty does not include damages or defects in the Raven geomembrane resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, or tornadoes. The term "normal use" as used herein does not include, among other things improper handling during transportation, unloading, storage or installation, the exposure of Raven geomembranes to harmful chemicals, atypical atmospheric conditions, abuse of Raven geomembranes by machinery, equipment or people; improper site preparation or covering materials, excessive pressures or stresses from any source or improper application or installation. Raven geomembrane material warranty is intended for commercial use only and is not in effect for the consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree that the sale hereunder is for commercial or industrial use only.

Should defects or premature loss of use within the scope of the above Limited Warranty occur, Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rata basis at the then current price in such manner as to charge the Purchaser/User only for that portion of the warranted life which has elapsed since purchase of the material. Raven Industries Inc. will have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane if a defect exists which is covered under this warranty. This Limited Warranty extends only to Raven's geomembrane, and does not extend to the installation service of third parties nor does it extend to materials furnished or installed by others in connection with the intended use of the Raven geomembranes.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the material as Raven Industries Inc. determines to have violated the warranty provided herein. Raven Industries Inc. shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to, damages for loss of production, lost profits, personal injury or property damage. Raven Industries Inc. shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications or alterations made by Purchaser unless Raven Industries Inc. specifically authorized, in writing, said repairs, replacements, modifications or alteration in advance of them having been made. Raven Industry's liability under this warranty shall in no event exceed the replacement cost of the material sold to the Purchaser for the particular installation in which it failed.

Raven Industries Inc. neither assumes nor authorizes any person other than the undersigned of Raven Industries Inc. to assume for it any other or additional liability in connection with the Raven geomembrane made on the basis of the Limited Warranty. The Limited Warranty on the Raven geomembrane herein is given in lieu of all other possible material warranties, either expressed or implied, and by accepting delivery of the material; Purchaser waives all other possible warranties, except those specifically given. This Limited Warranty may only be modified by written document mutually executed by Owner and Raven Industries Inc.

Limited Warranty is extended to the purchaser/owner and is non-transferable and non-assignable; i.e., there are no third-party beneficiaries to this warranty.

Purchaser acknowledges by acceptance that the Limited Warranty given herein is accepted in preference to any and other possible materials warranties.

THIS LIMITED WARRANTY SHALL BE GOVERNED BY SOUTH DAKOTA LAW AND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS LIMITED WARRANTY SHALL BE IN MINNEHAHA COUNTY, SOUTH DAKOTA. RAVEN INDUSTRIES INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESSED OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS IS THE ONLY WARRANTY THAT APPLIES TO THE MATERIALS REFERRED TO HEREIN AND RAVEN INDUSTRIES INC. DISCLAIMS ANY LIABILITY FOR ANY WARRANTIES GIVEN BY ANY OTHER PERSON OR ENTITY, EITHER WRITTEN OR ORAL.

RAVEN INDUSTRIES' WARRANTY BECOMES AN OBLIGATION OF RAVEN INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC.

# Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of Below Grade Tank (BGT) on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

#### General Plan:

- BR will operate and maintain a BGT to contain liquids and solids and maintain the integrity of the liner, liner system and secondary containment system to prevent contamination of fresh water and protect public health and environment. BR will accomplish this by performing an inspection on a monthly basis, installing cathodic protection, and automatic overflow shutoff devices as seen on the design plan.
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a below-grade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, BR will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, BR's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, BR shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 5. BR shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then BR shall remove all liquid above the damage or leak line within 48 hours. BR shall notify the appropriate district office. BR shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, BR shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. BR shall notify the appropriate district office of a discovery of leaks less than 25 barrels as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

# Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Closure Plan

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of Below Grade Tanks (BGTs) on Burlington Resources Oil & Gas Company, LP locations hereinafter known as BR locations. This is BR's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

### General Requirements:

- BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; and the chloride concentration, as determined by EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. 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.
- The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. 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.
- 11. 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 federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private 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. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. 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.
- 13. 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 the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
  - Soil Backfilling and Cover Installation
  - Re-vegetation application rates and seeding techniques
  - Photo documentation of the site reclamation
  - Confirmation Sampling Results
  - Proof of closure notice

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District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

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QUESTIONS

Action 21028

QUESTIONS

40=0	
Operator: HILCORP ENERGY COMPANY	OGRID: 372171
1111 Travis Street	Action Number:
Houston, TX 77002	21028
	Action Type: [C-144] Legacy Below Grade Tank Plan (C-144LB)
QUESTIONS	
Facility and Ground Water	
Please answer as many of these questions as possible in this group. More information will	help us identify the appropriate associations in the system.
Facility or Site Name	Marcotte 1
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	Marcotte 1
Well API, if associated with a well	30-045-10923

Well Name, include well number	Marcotte 1
Well API, if associated with a well	30-045-10923
Pit / Tank Type	Not answered.
Pit / Tank Name or Identifier	Not answered.
Pit / Tank Opened Date, if known	Not answered.
Pit / Tank Dimensions, Length (ft)	Not answered.
Pit / Tank Dimensions, Width or Diameter (ft)	Not answered.
Pit / Tank Dimensions, Depth (ft)	Not answered.
Ground Water Depth (ft)	43
Ground Water Impact	No
Ground Water Quality (TDS)	Not answered.

#### Below-Grade Tank

Subsection I of 19.15.17.11 NMAC	
Volume / Capacity (bbls)	120
Type of Fluid	Not answered.
Pit / Tank Construction Material	Not answered.
Secondary containment with leak detection	Not answered.
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	True
Visible sidewalls and liner	Not answered.
Visible sidewalls only	Not answered.
Tank installed prior to June 18. 2008	Not answered.
Other, Visible Notation. Please specify	Not answered.
Liner Thickness (mil)	45
HDPE (Liner Type)	Not answered.
PVC (Liner Type)	Not answered.
Other, Liner Type. Please specify (Variance Required)	LLDPE

#### Fencing

Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, 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)	Not answered.
Four foot height, four strands of barbed wire evenly spaced between one and four feet	Not answered.
Alternate, Fencing. Please specify (Variance Required)	4' hog wire fencing topped with two strands barbed wire

#### Netting

Screen         True           Netting         Not answered.           Other, Netting. Please specify (Variance May Be Needed)         Not answered.	Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
	Screen	True
Other, Netting. Please specify (Variance May Be Needed) Not answered.	Netting	Not answered.
	Other, Netting. Please specify (Variance May Be Needed)	Not answered.

#### Signs

Subsection C of 19.15.17.11 NMAC (If there are multiple operators at a site, each operator must have their own sign in compliance with Subsection C of 19.15.17.11 NMAC.)		
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	Not answered.	
Signed in compliance with 19.15.16.8 NMAC	True	

#### Variances and Exceptions

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 No. Please check a box if one or more of the following is requested, if not leave blank:	MAC for guidance.
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	True
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	Not answered.

## Received by OCD: 3/17/2021 8:52:03 AM

Siting Criteria (regarding permitting)		
19.15.17.10NMAC		
Instructions: The applicant must demonstrate compliance for each siting criteria below in the applica	ation. Recommendations of acceptable source material are	
provided below. Siting criteria does not apply to drying pads or above-grade tanks.		
Siting Criteria, General Siting		
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	No	
NM Office of the State Engineer - iWATERS database search	True	
USGS	Not answered.	
Data obtained from nearby wells	Not answered.	
Siting Criteria, Below Grade Tanks		
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole,	No	
wetland or playa lake (measured from the ordinary high-water mark)		
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	No	
Proposed Closure Method		
Below-grade Tank	e Tank Below Grade Tank - (BGT)	
Waste Excavation and Removal	Not answered.	
Alternate Closure Method. Please specify (Variance Required)	Not answered.	
Operator Application Certification		
Registered / Signature Date	12/22/2008	

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# **State of New Mexico** Energy, Minerals and Natural Resources **Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

#### ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	21028
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

#### ACKNOWLEDGMENTS

 $\checkmark$ I acknowledge that I have received prior approval from the OCD to submit documentation of a legacy below-grade tank on behalf of my operator.

 $\overline{\checkmark}$ I hereby certify that the information submitted with this documentation is true, accurate and complete to the best of my knowledge and belief. Action 21028

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# **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

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CONDITIONS

Action 21028

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	OGRID:
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#### CONDITIONS

Created By Condi	ndition	Condition Date
cwhitehead None	ne	8/9/2021