District 1	State c	of New Mexico	Form C-144
1625 N, French Dr., Hobbs, NM 88240		s and Natural Resources	July 21, 2008
District II		epartment	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
1301 W. Grand Ave., Artesia, NM 88210 District III		ervation Division th St. Francis Dr.	
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa I	Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the
1220 S. St. Francis Dr., Santa Fe, NM 87505			appropriate NMOCD District Office.
Durana		ystem, Below-Grad	
Propos	sed Alternative Meth	lod Permit or Closu	re Plan Application
Type of action:		• - •	tank, or proposed alternative method
		• • • •	tank, or proposed alternative method
	Modification to an exis		
		nitted for an existing permi proposed alternative method	itted or non-permitted pit, closed-loop system,
Instructions: Please submit one	-	•	op system, below-grade tank or alternative request
Please be advised that approval	of this request does not relieve the op	erator of liability should operations	result in pollution of surface water, ground water or the governmental authority's rules, regulations or ordinances.
1			
Operator: Burlington Resources O			OGRID#: <u>14538</u>
Address: PO Box 4289, Farmingt	on, NM 87499		
Facility or well name: OLIVER 3			
API Number:	3004510064	OCD Permit Numbe	r:
U/L or Qtr/Qtr: Secti			11W County: San Juan
Center of Proposed Design: Latitud		Longitude:	-107.99306°W NAD: X 1927 1983
Surface Owner: Federal	State X Private	e Tribal Trust or India	n Allotment
² <u>Pit:</u> Subsection F or G of 19.15.1	17.11 NMAC		
Temporary: Drilling Wo	rkover		
Permanent Emergency	Cavitation P&A		
	iner type: Thickness	mil LLDPE	HDPE PVC Other
String-Reinforced	<u> </u>		
Liner Seams: Welded F	Factory Other	Volume:	bbl Dimensions Lx Wx D
3			
	tion H of 19.15.17.11 NMAC	- Laure - Defilies (Analise to	
Type of Operation: P&A		orkover or Drilling (Applies to tice of intent)	activities which require prior approval of a permit or
Drying Pad Above Grou	und Steel Tanks 🦳 Haul-off	f Bins Other	
	er type: Thickness		IDPE PVD Other
Liner Seams: Welded F	actory Other		
4	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
X Below-grade tank: Subsection	1 of 19.15.17.11 NMAC		
Volume: 120	bbl Type of fluid: <u>Pr</u>	oduced Water	
Tank Construction material:	Metal		
Secondary containment with leak d	letection X Visible side	walls, liner, 6-inch lift and aut	omatic overflow shut-off
Visible sidewalls and liner	Visible sidewalls only	Other	
Liner Type: Thickness	milHDPÉ	PVC X Other t	Jnspecified
5 Alternative Method:			
	anized Exceptions must be cul	hmitted to the Santa Re Enviro	nmental Bureau office for consideration of approval.
Submitter of all exception request is re	quirea. Exceptions must be sur		пиненая высая описе юг солыстаной от арргоуат.
Form C-144	Oil	Conservation Division	Page 1 of 5

6 <u>Fencing:</u> 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, in	ditution or chi	urch)
Four foot height, four strands of barbed wire evenly spaced between one and four feet		
X Alternate. Please specify <u>4' hog wire fencing topped with two strands barbed wire.</u>		
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:		
These check a box if one of more of the following is requested, if not leave blank;		
Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for con	sideration of a	pproval
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
	T	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable		
source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for		
consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria		
does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakehed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes	XNo
- 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	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.		
(Applied to permanent pits)	Yes XNA	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	XNo
- NM Office of the State Engineer - 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	XNo
- 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	XNo
Within the area overlying a subsurface mine.	Yes	XNo
 Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division Within an unstable area. 	□ v	
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes	XNo
Society, ropographic map Within a 100-year floodplain	TYes	XNo
- FEMA map	L	
	-	

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Oil Conservation Division

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Instructions: Each of the folle	wing items must be attached to the application.	Application Attachment Checklist: Subsection B of 19,15,17,9 NMAC n. Please indicate, by a check mark in the box, that the documents are attached.
X Hydrogeologic Repr	ort (Below-grade Tanks) - based upon the re	equirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
🚽 🔛 Hydrogeologic Data	(Temporary and Emergency Pits) - based u	upon the requirements of Paragraph (2) of Subsection B of 19,15,17,9
X Siting Criteria Com	pliance Demonstrations - based upon the ap	ppropriate requirements of 19,15,17,10 NMAC
	upon the appropriate requirements of 19.15	
	tenance Plan - based upon the appropriate re	
		ble) - based upon the appropriate requirements of Subsection C of
19.15.17.9 NMAC a	ind 19.15.17.13 NMAC	the second about the appropriate requirements of Direction C of
Previously Approved De	esign (attach copy of design) API	or Permit
12		
Closed-loop Systems Perr	uit Application Attachment Checklist: Si	Subsection B of 19.15.17.9 NMAC
Instructions: Each of the folio	wing items must be attached to the application.	Please indicate, by a check mark in the box, that the documents are attached
		ased upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Siting Criteria Comp	liance Demonstrations (only for on-site clos	osure) - based upon the appropriate requirements of 19,15,17,10 NMAC
	upon the appropriate requirements of 19.15	
Operating and Main	lenance Plan - based upon the appropriate re	requirements of 19.15.17.12 NMAC
Closure Plan (Please	complete Boxes 14 through 18, if applicable	ble) - based upon the appropriate requirements of Subsection C of 19.15.17.9
NMAC and 19.15.E	7.13 NMAC	
	sign (attach copy of design) API	
Previously Approved Op	erating and Maintenance Plan API	
13		
27	pplication Checklist: Subsection B of 19	9.15.17.9 NMAC
		on. Please indicate, by a check mark in the box, that the documents are attached.
Ilydrogeologic Repo	rt - based upon the requirements of Paragrap	aph (I) of Subsection B of 19.15.17.9 NMAC
Siting Criteria Comp	liance Demonstrations - based upon the app	propriate requirements of 19.15.17.10 NMAC
Climatological Facto	rs Assessment	
	g Design Plans - based upon the appropriate	e 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 Desig	gn - based upon the appropriate requirement	ns of 19,15,17,11 NMAC
Liner Specifications	and Compatibility Assessment - based upon	n the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Qual	ity Assurance Construction and Installation	1 Plan
Operating and Mainte	enance Plan - based upon the appropriate re-	equirements of 19.15.17.12 NMAC
Freeboard and Overto	opping Prevention Plan - based upon the app	propriate requirements of 19.15.17.11 NMAC
	us Odors, including H2S, Prevention Plan	
Emergency Response		
Oil Field Waste Strea		
Monitoring and Inspe	ction Plan	
Erosion Control Plan		
Closure Flan - based	apon the appropriate requirements of Subse	ection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14 December 10 15 1		
Proposed Closure: 19.15.1 Instructions: Please complete	17.13 NMAC the applicable boxes, Boxes 14 through 18, in 1	a regards to the proposed elosure star
Alternative	Cover Chemergency Cavitation	P&A Permanent Pit XBelow-grade Tank Closed-loop System
Proposed Closure Method:	X Waste Excavation and Removal	
- ropores enours memory.	Waste Removal (Closed-loop systems onl	
	On-site Closure Method (only for tempora	
	In-place Burial	
		ite i rench i must be submitted to the Santa Fe Environmental Bureau for consideration)
	Counter method (Exceptions)	mast of submitted to the Sama re Environmental Bureau for consideration)
15 Silonto Engeneration and Dec		
Please indicate by a check	noval Closure Plan Checklist: (19.15.17.13 rk in the box, that the documents are attached.	3 NMAC) Instructions: Each of the following items must be attached to the closure plan.
	ires - based upon the appropriate requirement	
		propriate requirements of Subsection F of 19,15,17,13 NMAC
X Disposal Facility Nam	e and Permit Number (for liquids, drilling f	nuprime requirements of Subsection P of 19,15,17,13 NMAC
X Soil Backfill and Cove	Provide the second seco	appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - b	ased upon the appropriate requirements of 5	Subsection Lof 10 15 17 13 NMAC
	- based upon the appropriate requirements of 2	
		o or Subsection C 01 19.13.17.13 NMAC
Form C-144	Oil Conservation Divi	(sion Date 1 of 4

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16 <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel</u> Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fa are required.	Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) hids and drill cuttings. Use attachment if more than two f	acilities
Disposal Facility Name:	Disposal Facility Permit #:	
Disposal Facility Name	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activities Yes (If yes, please provide the information No	occur on or in areas that will not be used for future se	ervice and operations?
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	ion Lof 19.15.17.13 NMAC	c 54
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Re- certain siting criteria may require administrative approval from the appropriate district office or for consideration of approval. Justifications and/or demonstrations of equivalency are required.	may be considered an exception which must be submitted to the	w. Requests regarding changes to Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS: Data obtain	ed from nearby wells	Yes No
Ground water is between 50 and 100 feet below the bottom of the buried waste		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained	ed from nearby wells	
Ground water is more than 100 feet below the bottom of the buried waste.		
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtain	ed from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significat (measured from the ordinary high-water mark).	it watercourse or lakebed, sinkhole, or playa lake	Yes No
Topographic map; Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or church in exi- visual inspection (certification) of the proposed site; Aerial photo; satellite image	istence at the time of initial application.	Yes No
· · · · · · · · · · · · · · · · · · ·		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existen - NM Office of the State Engineer - iWATERS database; Visual inspection (certificat	ce at the time of the initial application.	
 Within incorporated municipal boundaries or within a defined municipal fresh water well pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtain 	field covered under a municipal ordinance adopted	Yes No
Within 500 feet of a wetland		Yes No
 US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspect Within the area countries on the set of the set	ion (certification) of the proposed site	
Within the area overlying a subsurface mine. - Written confirantion or verification or map from the NM EMNRD-Mining and Min	cral Division	Yes No
Within an unstable area.		
 Engineering measures incorporated into the design; NM Bureau of Geology & Mine Topographic map 	ral Resources; USGS; NM Geological Society;	
Within a 100-year floodplain. - FEMA map		Yes No
18		
<u>On-Site Closure Plan Checklist:</u> (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.	the following items must bee attached to the closure	plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate re	quirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirements		
Construction/Design Plan of Burial Trench (if applicable) based upon the a		
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
Protocols and Procedures - hased upon the appropriate requirements of 19.		
Confirmation Sampling Plan (if applicable) - based upon the appropriate re		
Waste Material Sampling Plan - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and		
Soil Cover Design - based upon the appropriate requirements of Subsection		ioi de achieved)

Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19,15.17.13 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Oil Conservation Division

19 Operator Application Certification:		
Thereby certify that the information submitted with this application is true, a	courate and complete to the b	est of my knowledge and belief.
Name (Print): Crystal Tafoy	Title:	Regulatory Technician
Signature:	L Date:	12/22/2008
e-mail address: crystal tal a @ conocophillips.com	Telephone:	505-326-9837
20 <u>OCD Approval:</u> Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Signature:		
OCD Representative Signature:		Approval Date:
Title:	OCD Permi	t Number:
21 Closure Report (required within 60 days of closure completion): s		
Instructions: Operators are required to obtain an approved closure plan prio	or to implementing any closure	e activities and submitting the closure report. The closure
report is required to be submitted to the division within 60 days of the comple approved closure plan has been obtained and the closure activities have been	ction of the closure activities.	Please do not complete this section of the form until an
approva viosure plan has been obtained and the closure activities have been	·	
		Completion Date:
22		
Closure Method: Waste Excavation and Removal On-site Closure Method		
If different from approved plan, please explain.	Alternative Closure M	Iethod Waste Removal (Closed-loop systems only)
23 Closure Report Regarding Waste Removal Closure For Closed-loop Syste	me That Iltilize Above Com	and Steel Teals on Head off Dire Only.
Instructions: Please identify the facility or facilities for where the liquids, du	rilling fluids and drill cutting	s were disposed. Use attachment if more than two facilities
were utilized.		
Disposal Facility Name: Disposal Facility Name;	_ Disposal Facility P	
Were the closed-loop system operations and associated activities performe	Disposal Facility Po ed on or in areas that will not i	
Yes (If yes, please demonstrate complilane to the items below)	No	e and for fathe we file and openfibilis:
Required for impacted areas which will not be used for future service and	operations;	
Site Reclamation (Photo Documentation)		
Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique		
24 <u>Closure Report Attachment Checklist:</u> Instructions: Each of the fo	allowing items must be attach	ed to the closure senart. Please indicate by a check mark in
the box, that the documents are attached.	nowing news must be tatuen	en to me closure report. I leuse thuicaie, by a check mark in
Proof of Closure Notice (surface owner and division)		
Proof of Deed Notice (required for on-site closure)		
Plot Plan (for on-site closures and temporary pits)		
Confirmation Sampling Analytical Results (if applicable)		
Waste Material Sampling Analytical Results (if applicable) Disposal Facility Name and Permit Number		
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
Site Reclamation (Photo Documentation)		
On-site Closure Location: Latitude:	Longitude:	NAD 1927 1983
25		
Operator Closure Certification:		. 32
I hereby certify that the information and attachments submitted with this closu the closure complies with all applicable closure requirements and conditions s	re report is ture, accurate and specified in the approved clos	d complete to the best of my knowledge and belief. I also certify that ure plan.
Name (Print)		
Name (Film).	Title:	
Signature:	Date:	
e-mail address:	Telephone:	
	relephone:	
Form C-141 Oli Conservation	Division	Page 5 of 5

New Mexico Office of the State Engineer

New Mexico Office of the State Engineer POD Reports and Downloads											
Township:	31N Range: 11W	Sections: 27,28,29,32,33,34									
NAD27 X:	Y:	Zone: Search Radius:									
County:	Basin:	Number: Suffix:									
Owner Name: (First)	(Last)	Non-Domestic ODomestic OAll									
POD / Surface Data	Report Avg	Depth to Water Report Water Column Report									
	Clear Form	iWATERS Menu Help									

WATER COLUMN REPORT 12/15/2008

							3=SW 4=SH	•					
· •	arter						smallest	E)		Depth	Depth	Water (:	in
POD Number	TWS		Sec	P	T	P	Zone	х	Y	Well	Water	Column	
SJ 02482	31N	11W		4	1	2				75	55	20	
SJ 03600	31N	11W	27	4		1				51	39	12	
SJ 03540	31N	11W		4	2	1				40	21	19	
SJ 03772 POD1	31N	11W	27	4	2	1	268	8239	2135717	41	30	11	
<u>SJ 02914</u>	31N	11W		4	2	3				25	15	10	
SJ 02468	31N	11W	27	4	2	3				49	30	19	
<u>SJ 02871</u>	31N	11W		4	2	4				22	11	11	
SJ 02656	31N	11W		4	2	4				21	9	12	
<u>SJ 02215</u>	31N	11W		4	3					54	23	31	
SJ 02676	31N	11W		4	3					19	7	12	
SJ 03247	31N	11W		4	3	1				70			
SJ 03505	31N	11W	27	4	3	3				50	14	36	
<u>SJ 02549</u>	31N	11W		4	3	3				49	30	19	
SJ 02853	31N	11W		4	3	4				22	6	16	
SJ 03181	31N	11W	27	4	4	1				19	10	9	
SJ 02984	31N	11W	27	4	4	1				20			
SJ 02994	31N	11W	33	4	3	2				300	200	100	
SJ 02993	31N	11W	33	4	3	2				280	160	120	
SJ 01137	31N	11W	33	4	4	4				37	19	18	
SJ 02277	31N	11W	34	1	2					16	7	9	
SJ 01251	31N	11W	34	1	4					79	65	14	
SJ 02167	31N	11W	34	1	4					83	69	14	
SJ 01533	31N	11W	34	1	4					58	40	18	
SJ 03211	31N	11W	34	1	4	1				24	14	10	
SJ 01125	31N	11W	34	1	4	2				59	42	17	
<u>SJ 00631</u>	31N	11W	34	2						30	11	19	
SJ 01657	31N	11W	34	2						20	6	14	
SJ 00632	31N	11W	34	2						25	7	18	
SJ 01675	31N	11W	34	2						33	7	26	
SJ 00656	31N	11W	34	2						30	8	22	
SJ 01656	31N	11W	34	2						20	6	14	
SJ 03448	31N	11W	34	2	1					41	21	20	

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SJ 01267	_ 31N	11W 34	2	1				65	45	20
<u>SJ 01618</u>	31N	11W 34	2	1				28	8	20
SJ_03316	31N	11W 34	2	1 1	_			30	10	20
SJ 00660	31N	11W 34	2	1 1	-			50	30	20
SJ 01840	31N	11W 34	2	1 1	_			65	25	40
SJ 01768	31N	11W 34	2	2				20	6	14
SJ 01721	31N	11W 34	2	2				22	10	12
SJ 03172	31N	11W 34	2	2 2				19	7	12
SJ 03047	31N	11W 34	2	2 4				19	6	13
SJ 02119	31N	11W 34	2	3	•			11	3	8
SJ 00659	31N	11W 34	2	3				33	11	22
SJ 02113	- 31N	11W 34	2	3				12	4	22
SJ 00661	31N	11W 34	2	-						
		11W 34						52	32	20
SJ 02972	31N		2	3 4				15	5	10
SJ 03107	31N	11W 34	2	4 1				18	8	10
SJ_03106	31N	11W 34	2	4 1				25	_	
SJ 03183	31N	11W 34	2	4 4				19	6	13
SJ 03780 POD1	31N	11W 34	3	1 2		267922	2130341	28	12	16
SJ 02859	_ 31N	11W 34		1 4				22	6	16
<u>SJ_03065</u>	31N	11W 34	3	2 3				22	7	15
<u>SJ 02856</u>	31N	11W 34	3	2 3	ļ.			24	6	18
<u>SJ 02967</u>	31N	11W 34	3	2 3	1			20	5	15
SJ 03025	31N	11W 34	3	2 3	j			22	5	17
SJ_02852	31N	11W 34	3	2 3	l -			23	7	16
SJ 03002	31N	11W 34	3	2 4	l.			22		
SJ_03014	31N	11W 34	3	2 4				30	5	25
SJ 03220	31N	11W 34	3	3 1	-			20	6	14
SJ 02861	31N	11W 34	3	3 1				21	7	14
SJ 03710 POD1	31N	11W 34	3	3 2	1			20	4	16
SJ 03042	31N	11W 34	3	3 2	}			23	6	17
SJ 03048	31N	11W 34	3	3 4				21	4	17
SJ 02857	31N	11W 34	3	4 1				23	6	17
SJ 03631	31N	11W 34	3	4 2				27	6	21
SJ 03492	31N	11W 34	3	4 2				30	-	
SJ_03493	31N	11W 34	3	4 2				25	15	10
SJ 03357	31N	11W 34	3	4 2				22	6	16
SJ 03609	31N	11W 34	3	4 4				27	6	21
SJ 03260	31N	11W 34	3	4 4				41	3	38
SJ 01608	31N	11W 34	4		•			48	17	31
SJ 03720 POD1	31N	11W 34	4	1 3	L.			21	6	15
SJ 03497	31N	11W 34	4	1 4				30	10	20
SJ 03402	31N	11W 34	4	1 4				25	TO	20
SJ 03377	-								2	1.0
	31N	11W 34	4	2 4				20	2	18
SJ 03739 POD1	31N	11W 34		3 1				25	3	22
<u>SJ 03016</u>	31N	11W 34	4	3 1				35	20	0.0
SJ 02966	31N	11W 34		3 3)			48	20	28
<u>SJ 00985</u>	31N	11W 34	4	4				40	16	24

Record Count: 79

http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

12/15/2008

New Mexico Office of the State Engineer

New Mexico Office of the State Engineer POD Reports and Downloads											
Township: 30N	Range: 11W	Sections: 3,4,5									
NAD27 X:	Y:	Zone: Search Radius:									
County: Bas	sin:	Number: Suffix:									
Owner Name: (First)	(Last)	○ Non-Domestic ○ Domestic ● All									
POD / Surface Data Repo	ort Av	g Depth to Water Report Water Column Report									
	Clear Form	iWATERS Menu Help									

WATER COLUMN REPORT 12/15/2008

(qu	arter	s are	a 1=)	NW	2=	NE	3=SW 4=	=se)						
(ଫୁସ	arter	s are	a big	gge	est	: to	smalle	est)			Depth	Depth	Water (in
POD Number	Tws	Rng	Sec	P	q	Ω	Zone	x	2	Y	Well	Water	Column	
SJ 01437	30N	11W	03	1							40	28	12	
SJ 03121	30N	11W	03	1	2	4					36	12	24	
SJ 02049	30N	11W	03	1	3						26	8	18	
SJ 01339	30N	11W	03	1	3	1					40	15	25	
SJ 02835	30N	11W	03	1	3	2					26	8	18	
SJ 00350	30N	11W	03	1	3	2					46	12	34	
SJ_02814	30N	11W	03	1	3	2					31	8	23	
SJ 01441	30N	11W	03	1	3	2					48	20	28	
<u>SJ 01387</u>	3 O N	11W	03	1	4						40	18	22	
SJ 03698 POD1	30N	11W	03	1	4	1					40	5	35	
SJ 02785	30N	11W	03	1	4	2					31	5	26	
SJ 01805	30N	11W	03	2							35	20	15	
<u>SJ 01313</u>	30N	11W	03	2							70	58	12	
SJ 01807	30N	11W	03	2	1						50	30	20	
SJ 02781	30N	11W	03	2	1	2					48	23	25	
SJ 01202	30N	11W	03	2	1	2					35	8	27	
SJ 03758 POD1	30N	11W	03	2	1	2	2	68158	1	2127473	49	21	28	
SJ 03765 POD1	30N	11W	03	2	1	2	2	268163		2127605	43	20	23	
SJ 03756 POD1	30N	11W	03	2	1	2	2	268179	ł	2127870	41	20	21	
SJ 02786	30N	11W	03	2	3	1					51	24	27	
SJ 01901	30N	11W	03	2	3	2					60	26	34	
SJ 00698	30N	11W	03	2	3	3					44	14	30	
SJ 01261	30N	11W	03	2	3	4						20		
SJ 02930	30N	11W	03	2	4	4					81	64	17	
SJ 02798	30N	11W	03	2	4	4					80	61	19	
SJ 00402	30N	11W	03	3							32	18	14	
SJ 00762	30N	11W	03	3	2						47	22	25	
SJ 01734	30N	11W	03	3	2						33	5	28	
SJ 01440	30N	11W	03	3	2	3					41	21	20	
SJ 01020	30N	11W	03	3	3						27	5	22	
SJ 03242	30N	11W	03	3	3	1					23	9	14	
SJ 03732 POD1	30N	11W	03	3	3	1					38	9	29	

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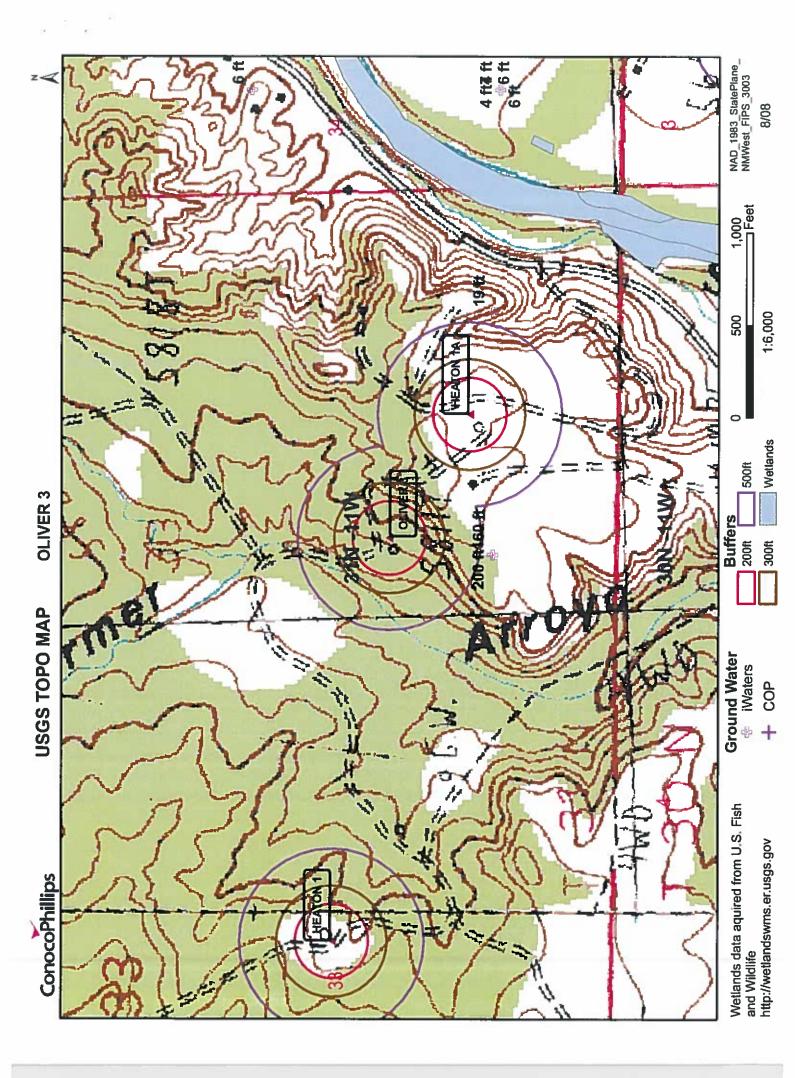
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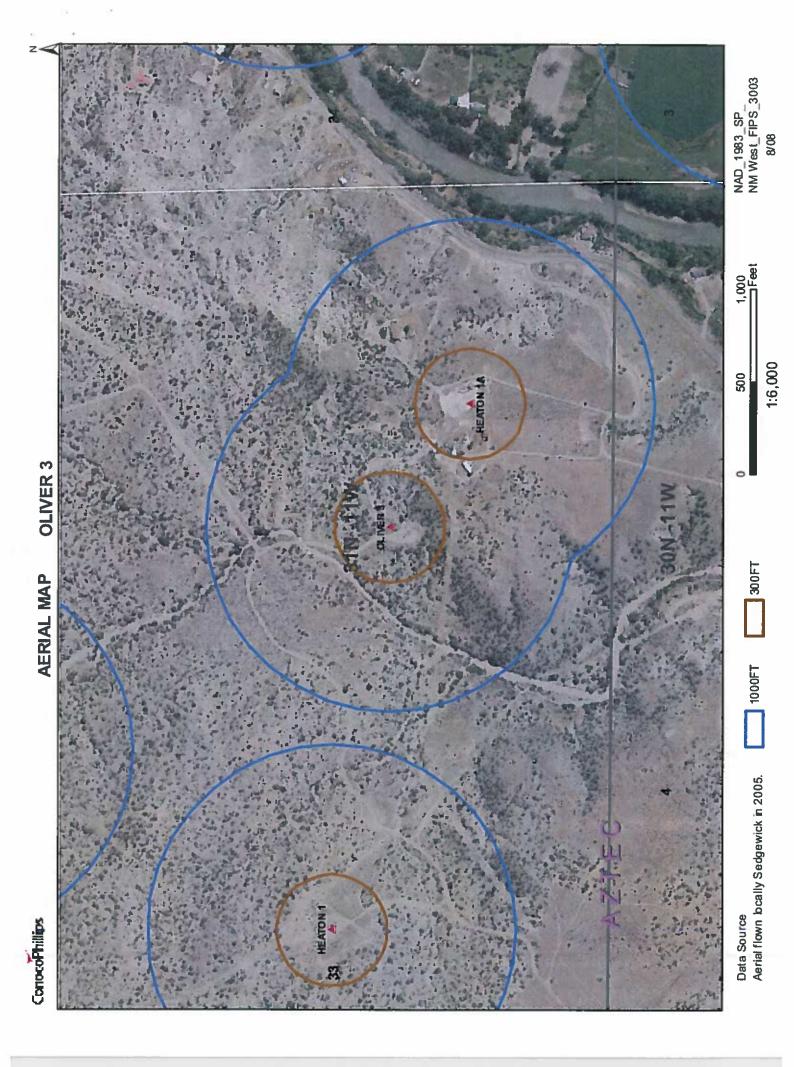
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SJ	01238	30N	11W 03	4	1					95	38	57
SJ	02245	30N	11W 03	4	1	3				66	30	36
SJ	01043	30N	11W 03	- 4	1	4				50		
SJ	01249	30N	11W 03	- 4	2					52	22	30
SJ	02824	30N	11W 03	- 4	2	1				70	50	20
SJ	02563	30N	11W 03	- 4	2	1				96	60	36
SJ	03153	30N	11W 03	4	2	1				80	60	20
SJ	03454	30N	11W 03	- 4	2	4				100		
SJ	03291	30N	11W 03	4	3	2				38	18	20
SJ	00366	30N	11W 03	- 4	4	4				33	18	15
SJ	01364	30N	11W 04	2						115	86	29
SJ	03076	30N	11W 04	2	2	3				44	10	34
SJ	02903	30N	11W 04	2	3	2				49	31	18
SJ	03039	30N	11W 04	4	1	2				53	40	13
SJ	01450	3 O N	11W 04	4	3					45	20	25
SJ	02941	30N	11W 04	- 4	3	2				58	37	21
SJ	01367	30N	11W 04	- 4	4	1				48	20	28
SJ	03407	30N	11W 04	- 4	4	4	W	453700	2124100	30	5	25
SJ	03267	30N	11W 05	2	1	3				83	60	23

Record Count: 52

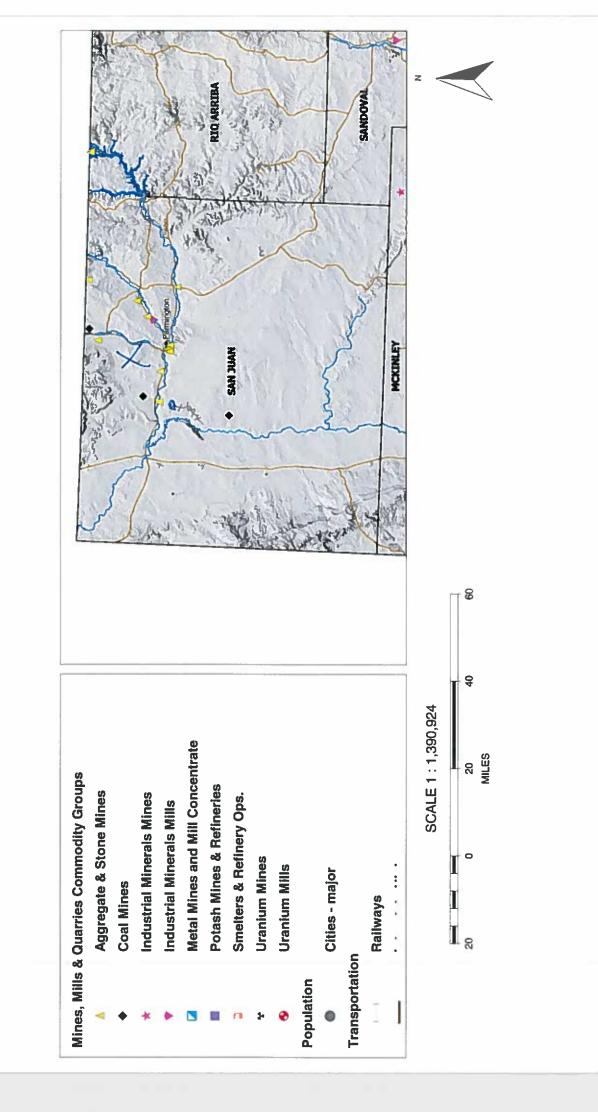
http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher

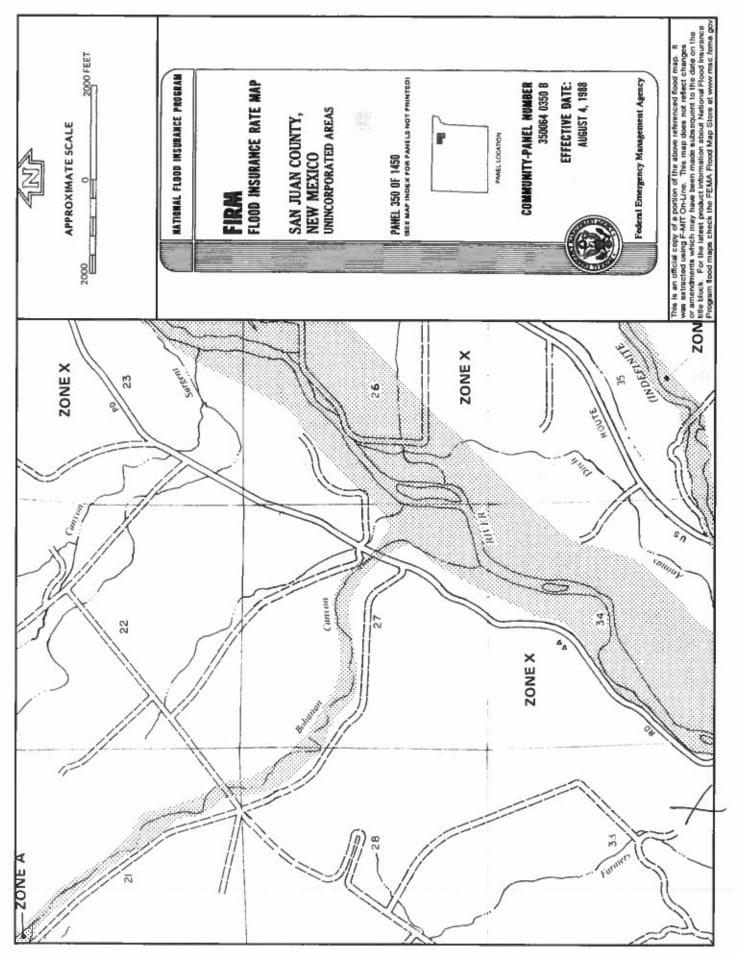
12/15/2008





MMQonline Public Version





OLIVER 3

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'OLIVER 3', which is located at 36.85153 degree, North latitude and 107.99306 degree, West longitude. This location is located on the Aztec 7.5' USGS topographic quadrangle. This location is in section 33 of Township 31 North Range 11 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 Aztec, located 2.1 miles to the south. The nearest large town (population greater than 10,000) is Farmington, located 14.3 miles to the southwest (National Atlas). The nearest highway is US Highway 550, located 1.1 miles to the southeast. The location is on Private land and is 393 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 1785 meters or 5854 feet above sea level and receives 11 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 156 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 named Farmer Arroyo and is 468 feet to the northwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is named Animas River and is 1,780 feet to the southeast. The nearest water body is 3,048 feet to the east. It is classified by the USGS as an swamp or marsh and is 5.1 acres in size. The nearest spring is 25,955 feet to the north. 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 198 feet to the southeast. The nearest wetland is a 74.2 acre Ravine located 1,696 feet to the east. The slope at this location is 4 degree, to the northwest 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 NACIMIENTO FORMATION-Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Gypsiorthids-Badland-Stumble complex, moderately steep' and is somewhat excessively drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 9.5 miles to the northeast as indicated on the Mines, Mills and Quarries Map of New Mexico provided. 1 Ine southwest [Nation: The location is on

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 conformably 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.

tes to the northeast

in sout in a broad band while the

BLM land status layer updated

baser. This location is located

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).

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contraction of the material vertical contraction of the material state of the material state of the conductive to

C utacec (B)řocks, eastr luan Basin, New Měxičovin Plateau Four Comers

K3 Hydrogeology and water

tiano Formation and Kirtland nal Paper 676, 76.87

New Mexico, Colorado, Arizona

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, eastcentral 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.

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

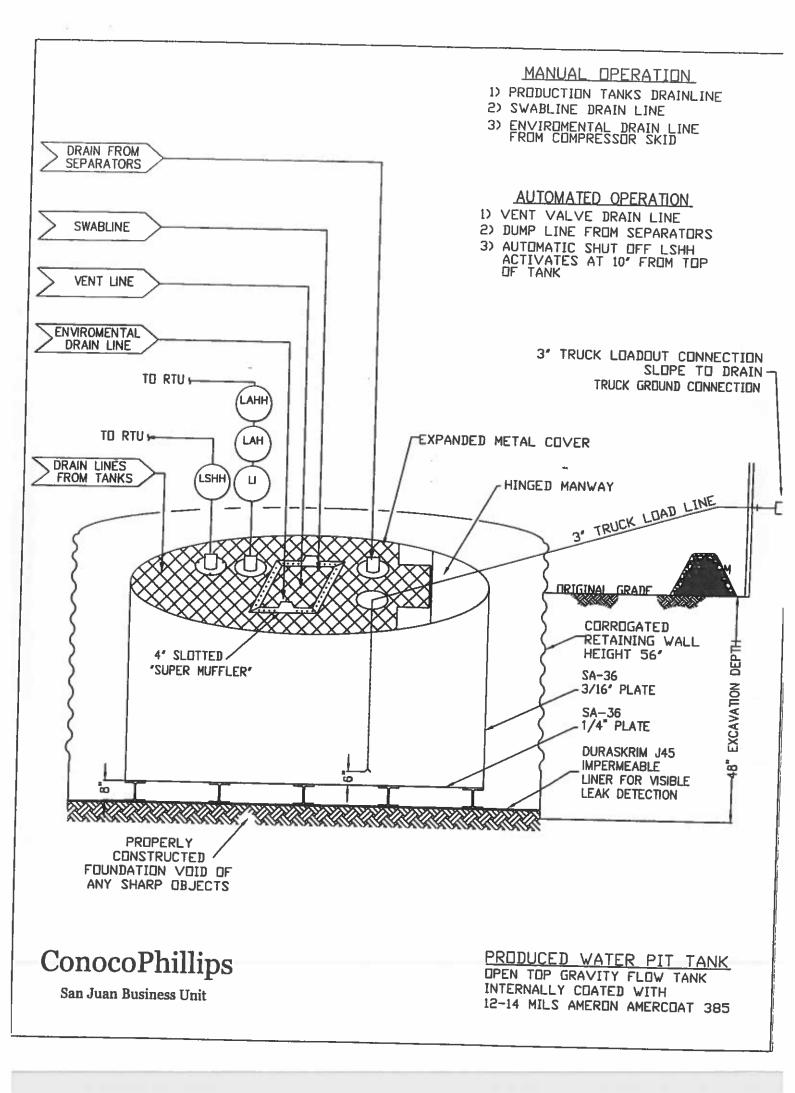
In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does 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.

11/5/2008

- 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.



PROPERTIES	TEST METHOD	J	308B	J3	6BB	J45BB		
She dan na Maria		Min. Roll Averages	Typical Roll Averages	Min, Roll Averages	Typical Roll Averages	Min Roll Averages	Typical Rol Averages	
Appearance		Bla	ck/Black	Blac	k/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	al scrim reinfor					
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 ibf 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	

<0.5

64 lbf

180° F

-70° F

MD = Machine Direction

NDUSTRIES

* Dimensional Stability

Puncture Resistance

Maximum Use Temperature

Minimum Use Temperature

DD = Diagonal Directions



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

<1

65 lbf

180° F

-70° F

172 lbf DD

<0.5

83 lbf

180° F

-70° F

*Dimensional Stability Maximum Value

<1

50 lbf

180° F

-70° F

**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.



ASTM D 1204

ASTM D 4833

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

160 lbf DD

<1

80 lbf

180° F

-70° F

191 lbf DD

< 0.5

99 lbf

180° F

-70° F

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

08/06

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. These dates will be updated prior 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.

11/5/2008

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 o f19.15.17.11 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 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; or other EPA method 300.1 or other 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

- Signed C-144 (Page 5 of C-144)
- Site Specific Hydrogeology

19.15.17.10 NMAC SITTING REQUIREMENTS

- ✓ New Mexico Office of State Engineer attachment
- USGS TOPO map
- 🖌 Aerial Map
- ✓ Mines, Mills and Quarries Map
- FIRM map (flood insurance rate map from Federal Emergency Agency)

19.15.17.11 NMAC DESIGN PLAN CONTENTS

Below Grade Tank Design and Construction Plan

19.15.17.12 NMAC OPERATING AND MAINTENCE PLAN

Below Grade Tank Operating and Maintenance Plan

19.15.17.13 NMAC CLOSURE PLAN

Below Grade Tank Closure Plan

REGISTRATION DATE:

07/24/2015

NOTES: