District I 1

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Form C-144
July 21, 2008

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

# Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Pro	posed Alternative Method Permi	t or Closure Plan A	<u>pplication</u>
Type of actio	The initial of a pit, closed-loop system, in the closure of a pit, closed-loop system, in the closure of a pit, closed-loop system, in the closure of a pit, closed-loop system, in the		
	Closure plan only submitted for an e below-grade tank, or proposed altern		ermitted pit, closed-loop system,
Please be advised that appr	ne application (Form C-144) per individual poval of this request does not relieve the operator of liability so all relieve the operator of its responsibility to comply with an	should operations result in pollution	of surface water, ground water or the
Operator: Burlington Resource Address: PO Box 4289, Farmi		OGRID#:	14538
Facility or well name: CRAND			

Facility or well na	me: CRANDELL SRC	2B			
API Number:	30045	30003	OCD Permit Nu	mber:	
U/L or Qtr/Qtr:	N Section:	19 Township: 3	IN Range:	10W County: Sa	an Juan
Center of Proposed	d Design: Latitude:	36.87902°N	Longitude:	-107.92648°W	NAD: X 1927 1983
Surface Owner:	X Federal	State Private	Tribal Trust or In	dian Allotment	
2	- Pay 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10				
Pit: Subsect	ion F or G of 19.15.17.11 N	MAC			
Temporary:	Drilling Workover				
Permanent	Emergency Cavitati	on P&A			
Lined	Unlined Liner typ	e: Thickness	mil LLDPE	HDPE PVC 0	Other
String-Reinfor	ced				
		Other	Volume:	bbl Dimensions L	x W x D
3 Closed-loop	n System. Subsection U	of 19.15.17.11 NMAC			
Type of Operation			ver or Drilling (Applie	es to activities which require	prior approval of a permit or
Type or operanor			of intent)	o to desirines missi require	prior approvar or a perimit or
Drying Pad	Above Ground Ste	el Tanks Haul-off Bin	s Other		
Lined	Unlined Liner type:	Thickness	mil LLDPE	HDPE PVD Ot	ther
Liner Seams:	Welded Factory	Other			-
X Below-grade	e tank: Subsection I of 19	.15.17.11 NMAC			
Volume:	120 bbl	Type of fluid: Produc	ced Water		
Tank Construction	n material:	Metal	100		

Volume: 120 bbl Type of fluid: Produced Water

Tank Construction material: Metal

Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off

Visible sidewalls and liner Visible sidewalls only Other

Liner Type: Thickness mil HDPE PVC X Other Unspecified

Alternative Method:

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

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, in  [	stitution or ch	uurch)
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		
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 confusion (Fencing/BGT Liner)  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	isideration of a	approval.
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map: Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	X No
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applied to permanent pits)	Yes X NA	No
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>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.</li> </ul>	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
<ul> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <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
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	XNo
Society; Topographic map  Within a 100-year floodplain  - FEMA map	Yes	XNo

P		
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tan Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids		ies
Disposal Facility Name:	oosal Facility Permit #:	
Disposal Facility Name: Disp		
Will any of the proposed closed-loop system operations and associated activities occ  Yes (If yes, please provide the information No		e and operations?
Required for impacted areas which will not be used for future service and operations:  Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	Lof 19.15.17.13 NMAC	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each string criteria requires a demonstration of compliance in the closure plan. Reconu	mendations of acceptable source material are provided below. Re	equests regarding changes to
certain siting criteria may require administrative approval from the appropriate district office or may for consideration of approval. Justifications and/or demonstrations of equivalency are required. Plea	be considered an exception which must be submitted to the Santa	
Ground water is less than 50 feet below the bottom of the buried waste.		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained f	rom nearby wells	N/A
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 fr	om nearby wells	N/A
Ground water is more than 100 feet below the bottom of the buried waste.		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained fr	om nearby wells	□N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant w (measured from the ordinary high-water mark).	atercourse 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 exister - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	ice at the time of initial application.	Yes No
		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence a - NM Office of the State Engineer - iWATERS database; Visual inspection (certification)	t the time of the initial application.	
Within incorporated municipal boundaries or within a defined municipal fresh water well fiel pursuant to NMSA 1978, Section 3-27-3, as amended.  Written confirmation or verification from the municipality; Written approval obtained f		Yes No
Within 500 feet of a wetland	I I	Tyes INO
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection	(certification) of the proposed site	
Within the area overlying a subsurface mine.	]	Yes No
- Written confiramtion or verification or map from the NM EMNRD-Mining and Mineral	Division	I
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral F Topographic map	Resources; USGS; NM Geological Society;	YesNo
Within a 100-year floodplain FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the	following items must bee attached to the closure plan	1. Please indicate,
by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requi	rements of 10 15 17 10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirements of S		
Construction/Design Plan of Burial Trench (if applicable) based upon the appr		
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad		7.11 NMAC
Protocols and Procedures - based upon the appropriate requirements of 19.15.	The state of the s	7.11 tunic
Confirmation Sampling Plan (if applicable) - based upon the appropriate require		
Waste Material Sampling Plan - based upon the appropriate requirements of St	absection F of 19.15.17.13 NMAC	Control Control
Disposal Facility Name and Permit Number (for liquids, drilling fluids and dril	l cuttings or in case on-site closure standards cannot be	achieved)
Soil Cover Design - based upon the appropriate requirements of Subsection H	of 19.15.17.13 NMAC	7 2 -
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of		
Site Reclamation Plan - based upon the appropriate requirements of Subsection	1 G of 19.15.17.13 NMAC	

19 Operator Applicat	ion Certification:					
I hereby certify that th	ne information submitted	with this application is true, accu	arate and complete to the b	est of my know	wledge and belief.	
Name (Print):	Cr	ystal Tafoya	Title:	Regulat	tory Technician	
Signature:					2/22/2008	
e-mail address:	crystal.tafoya	@conocophillips.com	Telephone:	50	05-326-9837	
OCD Approval:	Permit Application	(including closure plan)	Closure Plan (only)	OCD Co	onditions (see attachment)	)
OCD Representati	ve Signature:			Ар	oproval Date:	
Title:			OCD Permi	it Number:		
Instructions: Operato report is required to b	rs are required to obtain one submitted to the division	s of closure completion): an approved closure plan prior to m within 60 days of the completion the closure activities have been c	to implementing any closur on of the closure activities. ompleted.	re activities and	ot complete this section of th	
22						
Closure Method:  Waste Excava	ation and Removal	On-site Closure Method explain.	Alternative Closure N	Method	Waste Removal (Closed-loc	op systems only)
Instructions: Please is were utilized.  Disposal Facility N Disposal Facility N Were the closed-lo Yes (If yes, pl Required for impactory of the colored for impa	Name: Name: Nop system operations and ease demonstrate complicated areas which will not ion (Photo Documentation and Cover Installation Application Rates and Se	be used for future service and op n)	Disposal Facility I Disposal Facility I Disposal Facility I on or in areas that will not No Derations:	egs were dispos Permit Number Permit Number be used for fu	r: r: tture service and opeartions?	,
Proof of Clos Proof of Dee Plot Plan (for Confirmation Waste Mater Disposal Fac Soil Backfilli Re-vegetation	ocuments are attached.  Sure Notice (surface ow. d Notice (required for or r on-site closures and te a Sampling Analytical R ial Sampling Analytical ility Name and Permit N ing and Cover Installation Application Rates and tion (Photo Documenta	on-site closure) mporary pits) tesults (if applicable) Results (if applicable) Number on I Seeding Technique				
On-site Closu	ure Location: Latitud	le:	Longitude:		NAD	1983
	e information and attachr	ments submitted with this closure requirements and conditions sp			the best of my knowledge a	nd belief. I also certify that
Signature:			Date:			
e-mail address:			Telephone:			

# New Mexico Office of the State Engineer POD Reports and Downloads

NAD27 X:	Y:	Zone:	Search Rac	lius:
County: B	asin:		Number:	Suffix:
Owner Name: (First)	(Last)		O Non-Domesi	tic ODomestic   Al
POD / Surface Data Re	port Avg	Depth to Wate	r Report W	ater Column Report

# WATER COLUMN REPORT 08/20/2008

	(quarter	s are	1=1	WM	2=	NE	3=SI	V 4=SE)								
	(quarter	s are	big	gge	st	t	o sma	llest)			Depth	Depth	Water	(in	feet)	
POD Number	Tws	Rng	Sec	q	P	g	Zon	ie	X	Y	Well	Water	Column			
SJ 02395	31N	11W		1	1	3					95	35	60			
SJ 01640	31N	11W	13	2	4						32	7	25			
SJ 01551	31N	11W	13	2	4						64	42	22			
SJ 00560	31N	11W	13	2	4						39	25	14			
SJ 01729	31N	11W		2	4						48	28	20			
SJ 01541	31N	11W	13	3							52	30	22			
SJ 01539	31N	11W		3							52	30	22			
SJ 00946	31N	11W	13	3	3						135	100	35			
SJ 01540	31N	11W	13	4							52	30	22			
SJ 01879	31N	11W	13	4							26	8	18			
SJ 01801	31N	11W	13	4							22	15	7			
SJ 03413	31N	11W	13	4	2						60					
SJ 03412	31N	11W	13	4	2						60					
SJ 03736 POD1	31N	11W		4		1					19	6	13			
SJ 02495	31N	11W		4		1					28	12	16			
SJ 03623	31N	11W		4		1					30	16	14			
SJ 03264	31N	11W		4		2					20	11	9			
SJ 03124	31N	11W		4		4					20	5	15			
SJ 03125	31N	11W		4		4					20	5	15			
SJ 03712 POD1	31N	11W		4		1					19	11	8			
SJ 03018	31N	11W		4		4					20	8	12			
SJ 03670	31N	11W				4					26	10	16			
SJ 01538	31N	11W	13	4	4						52	30	22			
SJ 01683	31N	11W	13	4	4						45	25	20			
SJ 01731	31N	11W	13	4	4						43	25	18			
SJ 01644	31N	11W	13	4	4						23	6	17			
SJ 02149	31N	11W	13	4	4						35					
SJ 01645	31N	11W	13	4	4						22	6	16			
SJ 01767	31N	11W	13	4	4						42	18	24			
SJ 01730	31N	11W	13	4	4						40	24	16			
SJ 01699	31N	11W	13	4	4						42	12	30			
SJ 01609	31N	11W	13	4	4						40	18	22			

										0.0	0.4
SJ 01537	31N	11W 13	4	4					52	28	24
SJ 01542	31N 31N	11W 13 11W 13	4	4					45	25	20
SJ 01663 SJ 02093	31N	11W 13	4	4		W	470700	2143800	40	20	20
SJ 03440	31N	11W 13	4	4	1	VV	470700	2143000	20	6	14
SJ 03084	31N	11W 13	4	4	2				19	11	8
SJ 03085	31N	11W 13	4	4	2				18	8	10
SJ 02801	31N	11W 13	4	4	3				36	5	31
SJ 03064	31N	11W 13	4	4	3				45	3	31
SJ 01142	31N	11W 13	4	4	4				30	8	22
SJ 02838	31N	11W 13	4	4	4				38	10	28
SJ 02855	31N	11W 13	4	4	4				31		
SJ 01173	31N	11W 13	4	4	4				46	28	18
SJ 02289	31N	11W 13	4	4	4				45	16	29
SJ 03458	31N	11W 19	3	3	4				140		
SJ 02978	31N	11W 23	2	1	3				800		
SJ 01817	31N	11W 23	2	4					65	20	45
SJ 02129	31N	11W 23	2	4					72	35	37
SJ 02161	31N	11W 23	3	4					40	25	15
SJ 01600	31N	11W 24	1						30	6	24
SJ 02124	31N	11W 24	1	1					55	40	15
SJ 03755 POD1	31N	11W 24	1	4			269112	2142037	27	7	20
SJ 03695 POD1	31N	11W 24	1	4	2				25	13	12
SJ 03695 POD	31N	11W 24	1	4	2				25	13	12
SJ 03696	31N	11W 24	1	4	2				24	12	12
SJ 03695	31N	11W 24	1	4	2				25	13	12
SJ 03696 POD1	31N	11W 24	1	4	2				24	12	12
SJ 01559	31N	11W 24	2						50	27	23
SJ 01744	31N	11W 24	2	2					44	20	24
SJ 01375	31N	11W 24	2	2					30	11	19
SJ 01986 S	31N	11W 24	2	2	2				45	30	15
SJ 01986	31N	11W 24	2	2	2				38	21	17
SJ 00555	31N	11W 24	2	2	4				60 26	19 11	41 15
SJ 03408	31N	11W 24 11W 24	2	3	1 2				70	TT	13
SJ 02928 SJ 02924	31N 31N	11W 24	2	3	2				33	15	18
SJ 02846	31N	11W 24	2	3	3				45	18	27
SJ 02888	31N	11W 24	2	3	3				65	10	2,
SJ 03650	31N	11W 24		3					32	15	17
SJ 00555 X	31N	11W 24	2	4					58	39	19
SJ 02839	31N	11W 24	2		1				55	19	36
SJ 03707 POD1	31N	11W 24	2	4	1				60	40	20
SJ 02758	31N	11W 24	2	4	2				69	51	18
SJ 02791	31N	11W 24	2	4	2				74	54	20
SJ 00379	31N	11W 24	2	4	4				65	40	25
SJ 00365	31N	11W 24	2	4	4				71	40	31
SJ 01670	31N	11W 24	3						45	27	18
SJ 00287	31N	11W 24		2	4				38	6	32
SJ 01553	31N	11W 24	3		2				44	35	9
SJ 02171	31N	11W 24	3		3				45	25	20
SJ 01366	31N	11W 24	4	1	4				30	11	19
SJ 02644	31N	11W 24	4	1	4				45	18	27
SJ 00913	31N	11W 24	4	3					81	55	26
SJ 01405	31N	11W 24	4	3	Λ				30	9	21
SJ 01455	31N	11W 24		3					101	66	35
SJ 01047	31N	11W 24		3					205	70	135 27
SJ 00405	31N	11W 24	4						69 40	42	21
SJ 03438	31N 31N	11W 24 11W 25		4					200		
SJ 03045	TIM	TIM ZD	T	4	4				200		

SJ 02499	31N	11W 25	2	1	1			66	45	21
SJ 03198	31N	11W 25	3	3	1			600	100	500
SJ 02834	31N	11W 25	3	3	3			200	160	40
SJ 03450	31N	11W 25	3	3	3			144	95	49
SJ 03126	31N	11W 26	1	1	1			41	21	20
SJ 01233	31N	11W 26	1					49	27	22
SJ 03158	31N	11W 26	1		2			280	25	255
SJ 00675	31N	11W 26	1	4				36		
			1						22	14
SJ 02887	31N	11W 26	7	4				51	28	23
SJ 02898	31N	11W 26	2		4			50		
SJ 01789	31N	11W 26	3					29	12	17
SJ 00705	_ 31N	11W 26	3					18	8	10
SJ 00371	31N	11W 26	3	1	2			29	9	20
SJ 03323	31N	11W 26	3	1	4			30	6	24
SJ 00363	31N	11W 26	3	1	4			25	5	20
SJ 01545 X	31N	11W 26	3	3				27	10	17
SJ 00926	31N	11W 26	4	1				62	32	30
SJ 01519	31N	11W 26	4	2				69	47	22
SJ 01620	31N	11W 26	4					67	26	41
SJ 00610	31N	11W 26	4					80	50	30
SJ 02011	31N	11W 26	4					55	38	17
SJ 01628	31N	11W 26	4					66	25	41
SJ 03697 POD1	31N	11W 26	4		3			80	50	30
SJ 00562	31N	11W 26	4		٦					
	_	11W 26						40	20	20
SJ 00561	31N		4					38	20	18
SJ 01042	31N	11W 26	4					100	30	70
SJ 00494	31N	11W 26	4					88	60	28
SJ 02482	31N	11W 27	4	1				75	55	20
SJ 03600	31N	11W 27	4		1			51	39	12
SJ 03540	31N	11W 27	4	2	1			40	21	19
SJ 03772 POD1	31N	11W 27	4	2	1	268239	2135717	41	30	11
SJ 02914	31N	11W 27	4	2	3			25	15	10
SJ 02468	31N	11W 27	4	2	3			49	30	19
SJ 02656	31N	11W 27	4	2	4			21	9	12
SJ 02871	31N	11W 27	4	2	4			22	11	11
SJ 02215	31N	11W 27	4	3				54	23	31
SJ 02676	31N	11W 27	4	3				19	7	12
SJ 03247	31N	11W 27	4	3	1			70		
SJ 03505	31N	11W 27	4		3			50	14	36
SJ 02549	31N	11W 27	4	3	3			49	30	19
SJ 02853	31N	11W 27	4		4			22	6	16
SJ 02984	31N	11W 27	4		1			20		10
SJ 03181	31N	11W 27	4		1			19	10	9
SJ 01884	31N	11W 30	4		3			71	30	41
SJ 01739	31N	11W 30	4		4			98	30	68
	31N				4					
SJ 01154		11W 30	4					190	150	40
SJ 01834	31N	11W 30	4		4			103	30	73
SJ 01797	31N	11W 30	4					100	40	60
SJ 01396	31N	11W 30	4		1			80	57	23
SJ 00970	31N	11W 30	4		4			110	80	30
SJ 01811	31N	11W 31	2					89	50	39
SJ 02994	31N	11W 33	4	3				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					16	7	9
SJ 02167	31N	11W 34	1					83	69	14
SJ 01533	31N	11W 34	1					58	40	18
SJ 01251	31N	11W 34	1					79	65	14
SJ 03211	31N	11W 34	1		1			24	14	10
DU 03211	DIM	TTM 24	T	4	1			4	14	10

SJ 01125	31N	11W 34	1	4	2			59	42	17
SJ 01657	31N	11W 34	2					20	6	14
SJ 01675	31N	11W 34	2					33	7	26
SJ 00632	31N	11W 34	2					25	7	18
SJ 01656	31N	11W 34	2					20	6	14
SJ 00656	31N	11W 34	2					30	8	22
SJ 00631	31N	11W 34	2					30	11	19
SJ 03448	31N	11W 34	2	1				41	21	20
SJ 01267	31N	11W 34	2	1				65	45	20
SJ 01618	31N	11W 34	2	1				28	8	20
SJ 01840	31N	11W 34	2	1	1			65	25	40
SJ 03316	31N	11W 34	2	1	1			30	10	20
SJ 00660	31N	11W 34	2		1			50	30	20
SJ 01768	31N	11W 34	2					20	6	14
SJ 01721	31N	11W 34	2					22	10	12
SJ 03172	31N	11W 34	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 02113	31N	11W 34	2	3				12	4	8
SJ 00659	31N	11W 34	2	3				33	11	22
SJ 00661	31N	11W 34	2	3	1			52	32	20
SJ 02972	31N	11W 34	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	3	1	4			22	6	16
SJ 02967	31N	11W 34	3	2	3			20	5	15
SJ 02856	31N	11W 34	3	2	3			24	6	18
SJ 02852	31N	11W 34	3	2	3			23	7	16
SJ 03065	31N	11W 34	3	2	3			22	7	15
SJ 03025	31N	11W 34	3	2	3			22	5	17
SJ 03014	31N	11W 34	3	2	4			30	5	25
SJ 03002	31N	11W 34	3	2	4			22		
SJ 02861	31N	11W 34	3	3	1			21	7	14
SJ 03220 SJ 03042	31N	11W 34	3	3	1			20	6	14
SJ 03710 POD1	31N 31N	11W 34 11W 34	3	3	2			23	6	17 16
SJ 03048	31N	11W 34	3					21	4	17
SJ 02857	31N	11W 34	3	4	1			23	6	17
SJ 03492	31N	11W 34	3	4	2			30	0	Τ,
SJ 03631	31N	11W 34	3	4	2			27	6	21
SJ 03493	31N	11W 34	3	4	2			25	15	10
SJ 03357	31N	11W 34	3	4	2			22	6	16
SJ 03260	31N	11W 34	3	4	4			41	3	38
SJ 03609	31N	11W 34	3					27	6	21
SJ 01608	31N	11W 34	4					48	17	31
SJ 03720 POD1	31N	11W 34	4	1	3			21	6	15
SJ 03497	31N	11W 34	4	1	4			30	10	20
SJ 03402	31N	11W 34	4	1	4			25		
SJ 03377	31N	11W 34	4	2	4			20	2	18
SJ 03016	31N	11W 34	4	3	1			35		
SJ 03739 POD1	31N	11W 34	4	3	1			25	3	22
SJ 02966	31N	11W 34	4	3	3			48	20	28
SJ 00985	31N	11W 34	4	4				40	16	24
SJ 02827	31N	11W 35	1	1	2			60		
SJ 03371	31N	11W 35	1	1				21	5	16
SJ 02902	31N	11W 35	1					19	5	14
SJ 02897	31N	11W 35	1	3				17	6	11

SJ 00333	31N	11W	35	1	3	4			30	6	24
SJ 03760 POD1	31N	11W	35	1	4	1	268465	2130772	43	12	31
SJ 03543	31N	11W	35	1	4	4			61	30	31
SJ 01144	31N	11W	35	1	4	4			55	30	25
SJ 01319	31N	11W	35	2	2	2				155	
SJ 00185	31N	11W	35	2	3				54		
SJ 03676	31N	11W	35	2	3	1			52	19	33
SJ 03560	31N	11W	35	2	3	2			62	32	30
SJ 03165	31N	11W	35	2	4	4			20		
SJ 03166	31N	11W	35	2	4	4			20		
SJ 00983	31N	11W	35	3					110	70	40
SJ 00939	31N	11W	35	3					60	30	30
SJ 00940	31N	11W	35	3	1				64	15	49
SJ 01580	31N	11W	35	3	1	1			65	30	35
SJ 02932	31N	11W	35	3	1	2			27	14	13
SJ 02933	31N	11W	35	3	1	2			37	24	13
SJ 03574	31N	11W	35	3	1	4			100		
SJ 00591	31N	11W	35	3	1	4			83	54	29
SJ 00939 1	31N	11W	35	3	2				60	30	30
SJ 00713	31N	11W	35	4	2				37	19	18

Record Count: 229

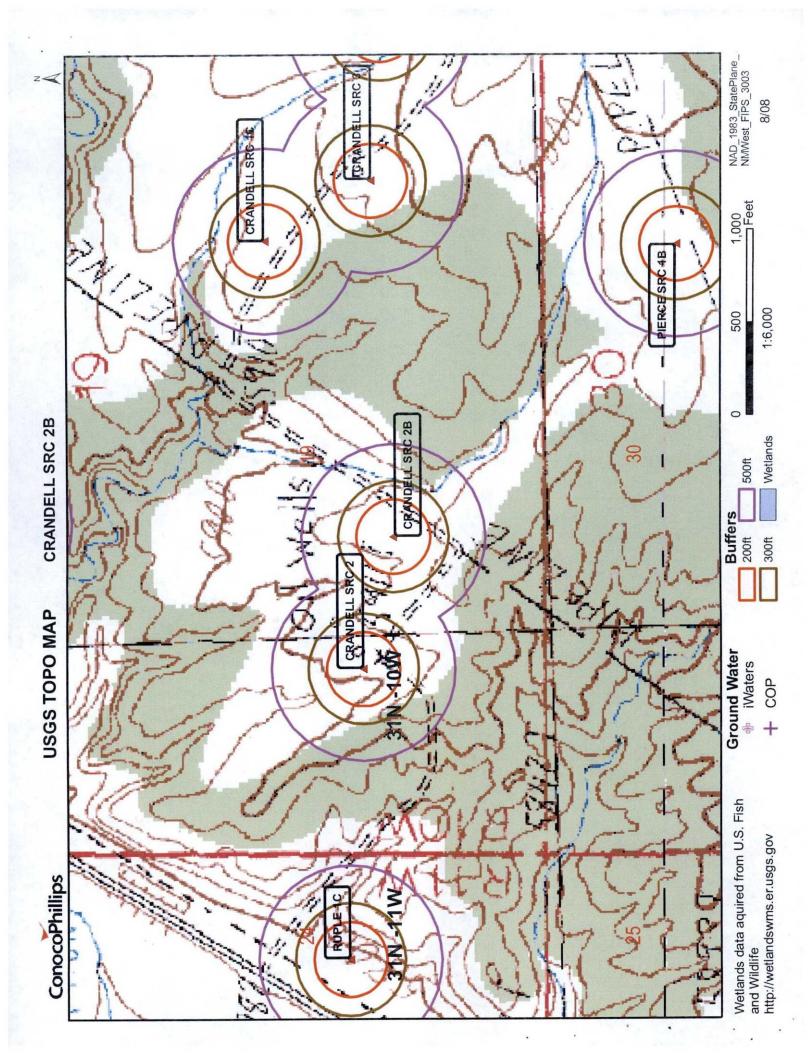
# New Mexico Office of the State Engineer POD Reports and Downloads

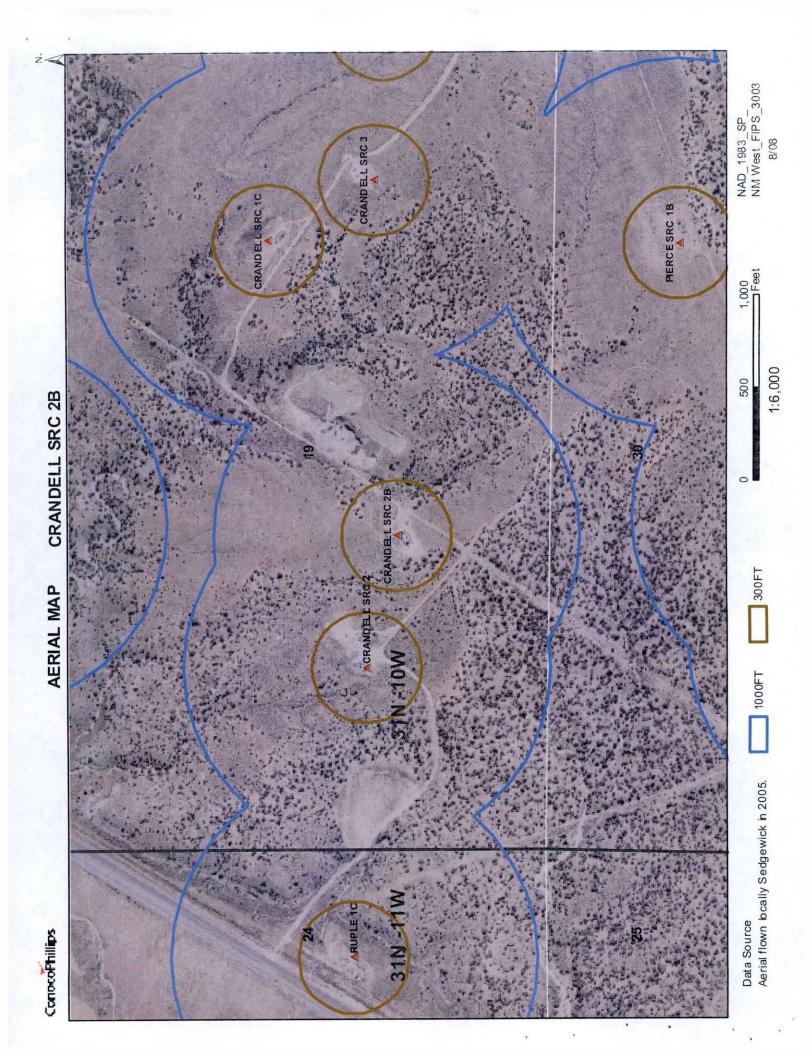
NAD27 X: Y:	Zone: Sear	rch Radius:
County: Basin:	Number:	Suffix:
Owner Name: (First)	(Last) C Non-	Domestic C Domestic 6 All
POD / Surface Data Report	Avg Depth to Water Report	Water Column Report

### WATER COLUMN REPORT 08/21/2008

	The second secon						3=SW 4=SE							
							smallest	)		Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng		q	_	-	Zone	X	Y	Well	Water	Column		
SJ 00050	30N	10W		1	3	2				520	306	214		
SJ 03460	30N	10W	1	1	3	2				520	500	20		
SJ 03230	30N	10W		1	2	1				120	70	50		
SJ 03113	3 ON	10W	05	4	1	4				42	30	12		
SJ 00589	3 0 N	10W	80	1	1	1				175	150	25		
SJ 00774	30N	10W	08	1	2	1				195	160	35		
SJ 02316	30N	10W	08	1	3					210	98	112		
SJ 02102	30N	10W	08	1	3	4				190	90	100		
SJ 01527	30N	10W	08	2	2					120	60	60		
SJ 01193	30N	10W	80	2	2					100	70	30		
SJ 02808	30N	10W	08	2	3	4				165	105	60		
SJ 01102	30N	10W	08	2	4					200	159	41		
SJ 02998	30N	10W	08	3	3	1				260	117	143		
SJ 02772	30N	10W	80	4	2	2				200	160	40		
SJ 00523	30N	10W	08	4	4					160	120	40		
SJ 01362	30N	10W	20	1	3	3				238	190	48		
SJ 03442	30N	10W	20	1	4	1				200				
SJ 02782	30N	10W	20	1	4	4				250				
SJ 02797	30N	10W	20	2	4	1				70				
SJ 00024	30N	10W	23	2	4	2				305				
SJ 00051	30N	10W	23	2	4	2				305				
SJ 00197	30N	10W	23	4	2					975	500	475		
SJ 00010	30N	10W	24	2						292				
SJ 01116	30N	10W	33	2	1					105	45	60		
SJ 01059	30N	10W	34	1	2	4				115	75	40		
SJ 01182	30N	10W	34	1	3	3				235	125	110		

Record Count: 26

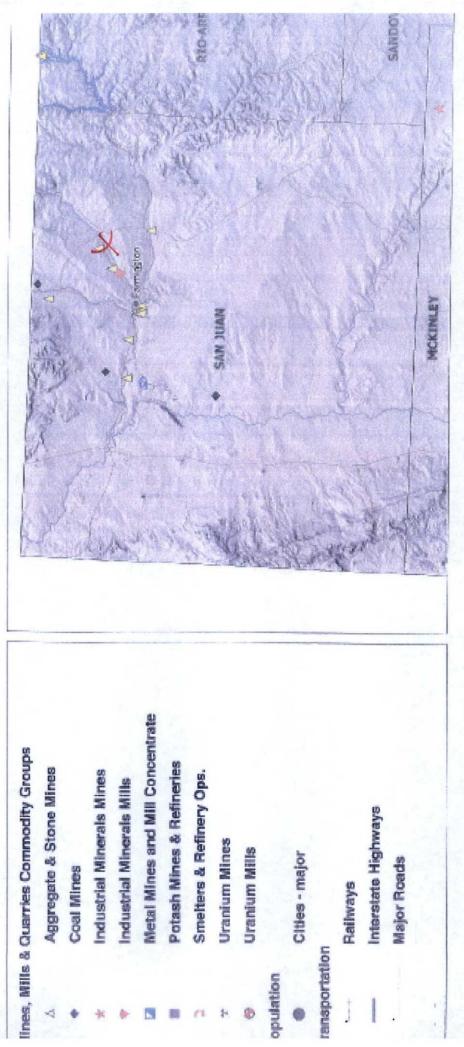




# Mines, Mills and Quarries Web Map

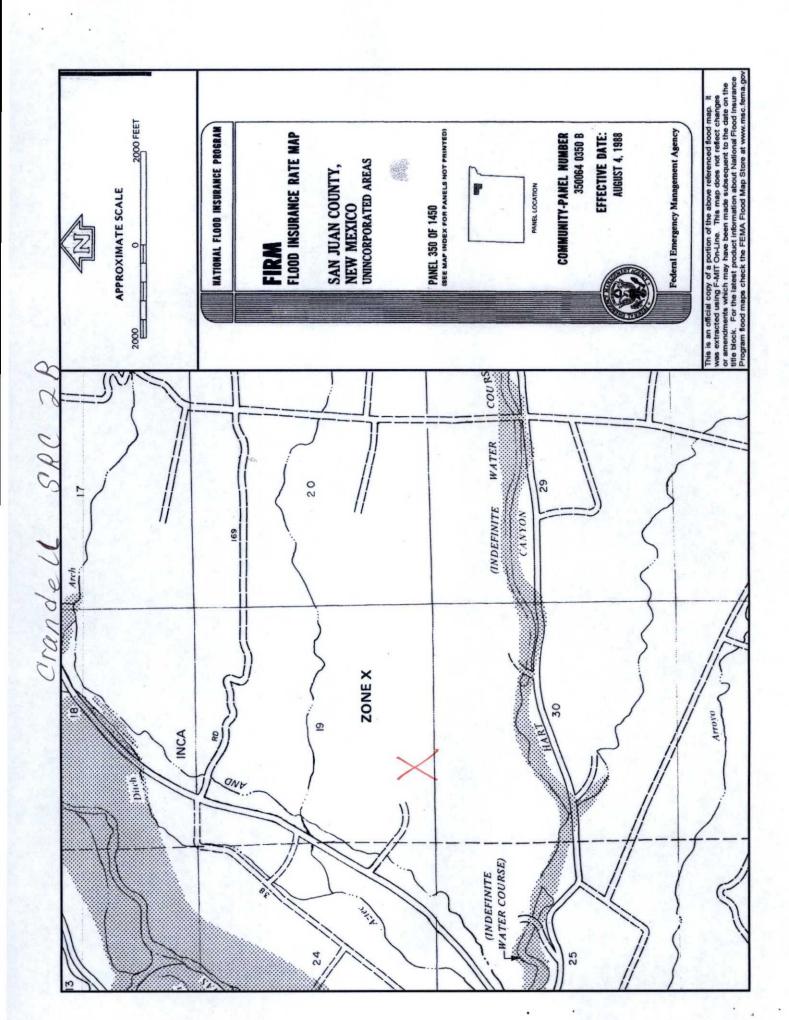
CRANDELL SRC 21

Unit Letter: N, Section: 19, Town: 031N, Range: 010W



SCALE 1:1,180,363





### **CRANDELL SRC 2B**

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'CRANDELL SRC 2B', which is located at 36.87902 degrees North latitude and 107.92648 degrees West longitude. This location is located on the Cedar Hill 7.5' USGS topographic quadrangle. This location is in section 19 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 4.7 miles to the northeast. The nearest large town (population greater than 10,000) is Farmington, located 18.4 miles to the southwest (National Atlas). The nearest highway is US Highway 550, located 0.5 miles to the northwest. The location is on BLM land and is 601 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 1810 meters or 5936 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 175 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 124 feet to the southeast and is classified by the USGS as an intermittent stream. The nearest perennial stream is named Animas River and is 6.127 feet to the northwest. The nearest water body is 6,641 feet to the east. It is classified by the USGS as an intermittent lake and is 0.2 acres in size. The nearest spring is 18,414 feet to the northwest. 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 2,192 feet to the northwest. The nearest wetland is a 1.4 acre Freshwater Forested/Shrub Wetland located 5.547 feet to the northwest. The slope at this location is 2 degrees to the west 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 'Doak-Avalon association, gently sloping' and is well drained and not hydric with slight erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 6.1 miles to the north as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

## 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.

### Hydraulic Properties:

Reported well yields for 53 wells completed in either the Animas or Nacimiento Formations range from 2 to 90 gallons per minute and the median yield is 7.5 gallons per minute. The primary use of water from Nacimiento and Animas Formations is domestic and livestock supplies. There are no known aquifer tests for the Animas or Nacimiento Formations, but specific capacities reported for six wells range from 0.24 to 2.30 gallons per minute per foot of drawdown (Levings et al., 1990).

The Animas and Nacimiento Formations are in many ways hydrologically similar to the San Jose Formation because sands in both units produce approximately the same quantities of water. However, the greater percentage of fine materials in the Animas and Nacimiento Formations may restrict downward vertical leakage to the Ojo Alamo Sandstone or Kirtland Shale. The poorly cemented fine material is highly erodible, forms a badland terrain, and supports only spotty vegetation. These conditions are more conductive to runoff than retention of precipitation.

### References:

Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, east-central San Juan Basin, New Mexico: USGS Professional Paper 552, 101 p.

Brimhall, R.M., 1973, Ground-water hydrology of Tertiary rocks of the San Juan Basin, New Mexico, in Fassett, J.E., ed., Cretaceous and Tertiary rocks of the Southern Colorado Plateau: Four Corners Geological Society Memoir, p. 197-207.

Fassett, J.E., 1974, Cretaceous and Tertiary rocks of the eastern San Juan Basin, New Mexico and Colorado, in Guidebook of Ghost Ranch, central-northern New Mexico: New Mexico Geological Society, 25th Field Conference, p. 225-230.

Fassett, J.E., and Hinds, J.S., 1971, Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado: USGS Professional Paper 676, 76 p. Levings, G.W., Craigg, S.d., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico, Colorado, Arizona, and Utah: USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

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teller Geological Society.

Television Fager 576, 76 p.m.

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.

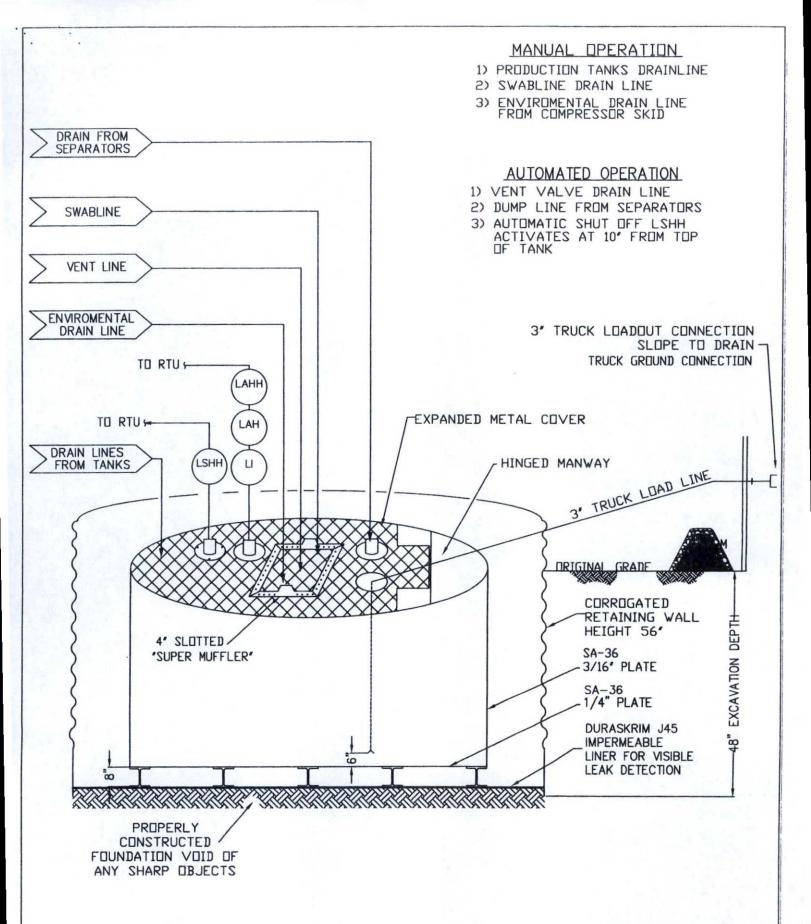
# Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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:

- 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.
- 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.
- 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.
- 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.
- The general specification for design and construction are attached in the BR document.



# ConocoPhillips

San Juan Business Unit

PRODUCED WATER PIT TANK
OPEN TOP GRAVITY FLOW TANK
INTERNALLY COATED WITH
12-14 MILS AMERON AMERCOAT 385

# DURA-SKRIM®

# J30, J36 a J45

PROPERTIES	TEST METHOD	, J3	OBB	J36	iBB	J45BB		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Rol Averages	
Appearance		Black	k/Black	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		**Extr	usion laminated	with encapsula	ted tri-direction	al scrim reinford	cement	
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 MI 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 ME 118 lbf DE	
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 disciaims 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** 



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 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.
- 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.
- 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:

- 1. 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 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by 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 belowgrade 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

# OCD Aztec District III Conoco Phillips/Burlington Checklist Below Grade Tank Registration

# 19.15.17.9 Permit application Signed C-144 (Page 5 of C-144) Site Specific Hydrogeology 19.15.17.10 Siting requirements New Mexico Office of State Engineer attachment ■ USGS TOPO map Aerial Map Mines, Mills and Quarries Web Map FIRM map (flood insurance rate map from Federal Emergency Management Agency) 19.15.17.11 Design Plan Contents Below Grade Tank Design and Construction Plan. 19.15.17.12 Operating and Maintenance Plan Below Grade Tank Operating and Maintenance Plan 19.15.17.13 Closure Plan Below Grade Tank Closure Plan Requirements: 19.15.17.9 Permit application Signed C-144

KC

Registration Date: 2/22/2017