		INITED STATES					
		MENT OF THE IN	1 31 / 1			5. LEASE DESIGNATION	N AND SERIAL NO.
	BUREAU	OF LAND MANAG	EMENTICUE			NM 97843	
	PLICATION FO	R PERMIT TO D	RILL OR DE	EPEN	.	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
	ILL 델	DEEPEN	. ئائىلىقا ئەتلاشى	J MII O. Z.		7. UNIT AGREEMENT N	AME 34806
b. TYPE OF WELL OIL G	AS 🗂		SINGLE V	ngton w.\\\		8. FARM OR LEASE NA	
WELL III W	ELL OTH	ER SWD	ZONE	ZONE	<u> </u>	Salty Dog SW	D No.3R
2. NAME OF OPERATOR	rating Company	19219	A	4567		9. API WELL NO.	
3. ADDRESS AND TELEPHO		7 10	—— ∕ {J-,	<u>ی </u>		30045	3/274
	ighway, Farmingto	on, NM 87401		DED as-		10. FIELD AND POOL, O	
	port location clearly and in accord		<u>•.7) (83) r</u>	DEC 2002		SWD; Entrada	
44	•	•	F 50		때	11. SEC., T., R., M., OR I	BLK
850' FNL & 770	' FEL, Sec 28, T	30N, R14W, NMPM,	San Wanceo	unty, NM	[3	AND SURVEY OR AR	
At/proposed prod. zone			A COL	Das. J	37	Sec 28, T30N	, R14W, NMPM
12 DISTANCE IN MILES AN	D DIRECTION FROM NEAREST	TOWN OR POST OFFICE*	£1.	<i>^\</i>	12 P	12. COUNTY	13. STATE
			الم الم	2217 B2 Dags		San Juan	New Mexico
15. DISTANCE FROM PRO LOCATION TO NEARE			16. NO. OF ACRES IN	LEASE	17. NO. OF AC	RES ASSIGNED	
PROPERTY OR LEASE	LINE, FT.		1120		10 THIS W	ELL N/A - SWD	
(Also to negrest drig. uni 18. DISTANCE FROM PRO	POSED LOCATION*		19. PROPOSED DEP	rH	20. ROTARY O	R CABLE TOOLS	
TO NEAREST WELL, DI OR APPLIED FOR, ON	RILLING, COMPLETED, 45 THIS LEASE, FT.	•	7200'		Rotary	<i>t</i>	
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)					22. APPROX. DATE WO	RK WILL START*
5572' GL						December 9,	2002
23.		PROPOSED CA	SING AND CEME	ENTING PROGR	RAM		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		Q	UANTITY OF CEMENT	
12.25"	J-55, 8 5/8"	24.0#	420' KB	300 sx or	300 ft3		
7.875"	J-55, 5 1/2"	15.5#	7200'KB	1155 sx or	1903 ft	3, 2 stages	

The surface of this location is on BLM land.

No new surface disturbance is required.

Archaeological: This location has be previously covered by arch surveys - See letter of 6/28/02 to Dave Simons from Steven Fuller, La Plata Archaeological Consultants.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

N ABOVE SPACE DESCRIBE PROPOSED PROGRAM ata on subsurface locations and measured true vertical	it: If proposal is to deepen, give data on present productive zone and proposed ne I deaths. Give blowout preventer program, if any.	w productive zone. if proposal is to drill or deepen directionally, give pertin
4.		
SIGNED	THIE Operations Manager	DATE 12-3-02
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
Application approval does not warrant or certify CONDITIONS OF APPROVAL, IF ANY:	that the applicant holds legal or equitable title to those rights in the subject lease	which would entitle the applicant to conduct operations thereon.
le/ Davi	d J. Mankiewicz	DEC - 6 2002
APPROVED BY	TITLE	DATE

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

PO Box 2088, Santa Fc, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

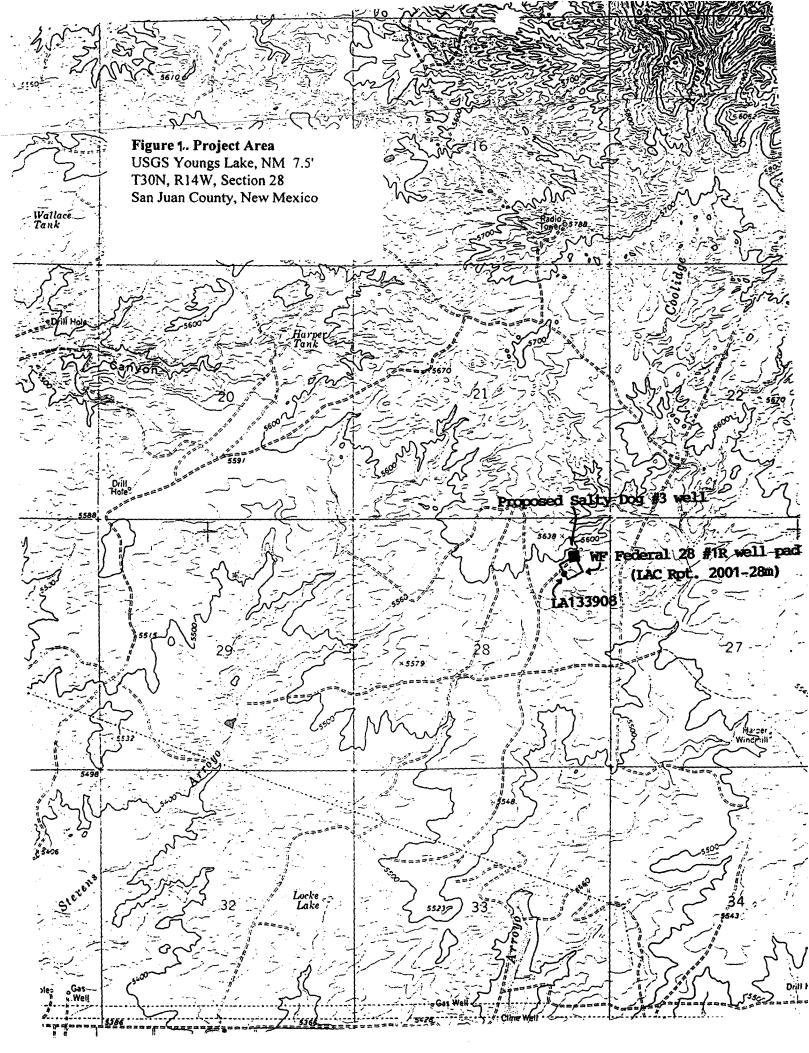
Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office

OIL CONSERVATION DIVISION PO Box 2088
Santa Fe, NM 87504-2088 -5 PM 2: 1

State Lease - 4 Copies Fee Lease - 3 Copies

■ AMENDED REPORT

070 Farmington, NM WELL LOCATION AND ACREAGE DEDICATION PLAT										
20-015-31771 Pool Code 96436						ot Nume Entrada				
Property (Code	21614					' Well Number			
2(80)	12 1				Salty Do	g SWD				3
OCRID!	No.				Operator					* Elevation .
-185142	- 19	219	1	RICHAR	DSON OPER	RATING COMP	ANY		1	55721
· · · · · · · · · · · · · · · · · · ·	¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from th	- 1		County
A	28	30 N.	14 W		850	North	770	Eas	t	San Juan
			11 Bott	tom Hol	e Location I	f Different Fro	m Surfac	e ·		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from th	e East/We	st line	County
		ļ								
12 Dedigated Acr	es 13 Joint	or Infill 14 C	onsolidatio	n Code 15 C	order No.					
NO ALLOV	VABLE	WILL BE A	SSIGNE	D TO TH	IS COMPLETI	ON UNTIL ALL	INTEREST	S HAVE BE	EN CO	DNSOLIDATED
		OR A	NON-STA	ANDARD	UNIT HAS B	EEN APPROVED	BY THE I	NOISIVIC		•
16						4	17 OF	ERATOR	CER	TIFICATION
	-						I hereby	certify that the i	nformasio	m contained herein is
	Ì				1	850	irue and	complete to the	best of m	y knowledge and belief
ll ·						<u> </u>				
						9 770'	-			
									_	
							Signatu	re		
				1			Printed	NEW CAN	ES	
		·		ع مر	18-7-20 B		11	name PERATTONS I	Mars	CEM
				123 W		<i>,</i>	Title		10,000	
				A	=0 0000	<i>ે</i> કુ	Date /2	-5-02		
				<u> </u>	EC 2002	~				
il 					COMS. DIV.	3	18SU	RVEYOR	CER	TIFICATION
			,		COME DIV.		15			ion shown on this plat ual surveys made by me
				(S.	200	7	or unde	r my supervision.	and that	the same is true and
	,			4.5 / J	252251506		correct	to the best of my		
							Date of	6/11/	HUDS	
 							Signatur	165.74	ME //	Surveyer:
			•	İ			.	144 T	- 1	NON
								12 100	344)	le l
							920	Jan Ja	illy	
				,				DE FERED L	AND SU	MY.
							Certific	ate Number	****	



Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

Lease Serial No.
NM 97843

SUNDRY N	OTICES AND	REPORTS C	ON WELLS
Do not use this	form for prop	osals to drill o	r to re-enter an
handoned well			

6.	If Indian.	Allottee or	Tribe Name	

abandoned wer	i. 036 ioiiii 0100-0 (Ai i	b) for such pr	oposuis.						
SUBMIT IN TRII	rse side.		7. If Unit or CA/Agreement, Name an						
Type of Well ☐ Gas Well ☐ Oth	er: UNKNOWN OTH				8. Well Name and No. SALTY DOG SWI	8. Well Name and No. SALTY DOG SWD 3R			
2. Name of Operator RICHARDSON OPERATING	DREW CARN E-Mail: dcarnes			9. API Well No. 30045 3	1274				
3a. Address 3100 LA PLATA HIGHWAY FARMINGTON, NM 87401	3b. Phone No. Ph: 505.564 Fx: 505.564.	.3100	code)	10. Field and Pool, or	10. Field and Pool, or Exploratory SWD; ENTRADA				
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description	i)			11. County or Parish, a	and State			
Sec 28 T30N R14W NENE 85	50FNL 770FEL				SAN JUAN COL	SAN JUAN COUNTY, NM			
12. CHECK APPR	ROPRIATE BOX(ES) TO	O INDICATE 1	NATURE (OF NOTICE	, REPORT, OR OTHER	R DATA			
TYPE OF SUBMISSION			TYP	TYPE OF ACTION					
Notice of Intent ☐ Subsequent Report	☐ Acidize ☐ Alter Casing ☐ Casing Repair	_	en ure Treat Construction	□ Rec	duction (Start/Resume) lamation omplete	☐ Water Shut-Off ☐ Well Integrity ☑ Other			
Final Abandonment Notice	Change Plans Convert to Injection	_	and Abando	n \square Tem	nporarily Abandon er Disposal	Change to Original A PD			
Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for formation tops and expected Fruitland 360' Gas/War Pictured Cliffs 1122' Gas/War Pictured Cliffs 1122' Gas/War Lewis 1220' Cliffhouse 2692' Water Menefee 2774' Gas/War Point Lookout 3544' Water Upper Mancos 3912' Water Gallup 4884' Oil/Gas/Greenhorn 5624' Graneros 5688' Dakota 5734' Oil/Gas/Dakota 5734' Oil/Gas/Dakota 14. Thereby certify that the foregoing is	operations. If the operation repandonment Notices shall be fill inal inspection.) fluida are as follows: ter /ater r ter Water //water	sults in a multiple ed only after all re	completion of equirements, in the second of	r recompletion ncluding reclan	in a new interval, a Form 316	0-4 shall be filed once			
, , , , , , , , , , , , , , , , , , , ,	Electronic Submission # For RICHARDSC	∤16635 verifie¢l	by the BLM	Well Informa o the Farming	tion System gton				
Name (Printed/Typed) DREW CARNES			Title MAI	NAGER		·			
Signature (Electronic S	Submission)		Date 12/0	04/2002					
	THIS SPACE FO	OR FEDERAL	OR STA	TE OFFICE	USE				
Approved By /Si Des	id d. Mannigrenz		Title		D	DEC →6 2002			
Conditions of approval, if any, are attache certify that the applicant holds legal or equal which would entitle the applicant to condu-	uitable title to those rights in th	s not warrant or e subject lease	Office						
Fitle 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a statements or representations as	a crime for any per s to any matter wit	rson knowing! thin its jurisdi	ly and willfully ction.	to make to any department or	agency of the United			

Richardson Operating Company

Salty Dog SWD No. 3R 850' FNL & 770' FEL Section 28, T30N, R14W, NMPM San Juan County, New Mexico

DRILLING PROGRAM

1. Surface Formation: Kirtland

2. Surface Elevation: 5572' as graded

3. Estimated Formation Tops:

Formation	Top - feet	Zone
Kirtland	Surface	
Fruitland	500'	
Pictured Cliffs	1122'	
Lewis	1220'	
Cliff House	2692'	
Menefee	2774'	
Pt. Lookout	3544'	
Upper Mancos	3912'	
Gallup	4884'	
Greenhorn	5624'	
Graneros	5688'	
Dakota	5734'	
Morrison	5966'	
Bluff	6730'	
Summerville	6855'	
Todilto	6925'	
Entrada	6965'	Proposed Injection Zone
Chinle	7090'	. •
Total Depth	7200'	

4. Casing and Cementing Program:

Hole Size	Casing O.D.	Weight (#/ft)	Grade	<u>Age</u>	Setting Depth (GL)
12 ¼"	8 5/8"		J-55		420'
7 7/8"	5 ½"	15.5	J-55	New	7200'

Surface casing will be cemented to surface with approximately 300 cu.ft. (254 sx) Class B with 2% CaCl. Volume is based on 100% excess, yield of 1.18 cu.ft./sk, and slurry weight of 15.6 ppg. WOC = 12 hours. Pressure test surface casing to 600 psi for 30 minutes.

Drilling Program Richardson Operating Company Salty Dog SWD No. 3

Page Two

4. Casing and Cementing Program: (Continued) Production esq cement must rie info Surface csq by \geq 100'

Production casing will be set to 7200' with a DV Tool set at approximately 5300'. The first cement stage will be 380 sx (547 cu.ft.) of 50/50 Class G/Poz Mix. Density will be 13.0 ppg; yield = 1.44 cu.ft./sk. The second stage will be 775 sx (1356 cu.ft.) of 65/35 Class G/Poz mix with additives. Density will be 12.8 ppg; yield = 1.75 cu.ft./sk.

Casing will have a 5 1/2" guide shoe and float collar. Centralizers will be run.

5. Pressure Control Equipment:

A 3M psi BOP well control system will be utilized. BOP's and choke manifold will be installed and pressure tested to a minimum of 600 psig before drilling out cement from surface casing and then will be checked daily as to mechanical operation condition.

A full opening internal blowout preventor or drill pipe safety valve will be on the drill floor at all times and will be capable of fitting all connections in use.

6. Mud Program:

Fresh water will be used to drill surface hole to 420'.

Fresh water combined with polymer will be used to drill to the Gallup formation at 4884'. From this point to TD a fresh water based gel with an expected maximum weight of 9.2 ppg will be used. Sufficient materials will be on location at all times to maintain volume and to control any lost circulation problem or unforeseen abnormal pressures. The volume in the rig pit will be visually monitored on a routine basis.

7. Coring, Logging, and Testing Program:

No cores, open hole logs, or DST's are planned.

8. Abnormal Pressure:

No abnormal pressures, temperatures or hydrogen sulfide are expected. Maximum pressure will be 3600 psi.

9. Operations Schedule:

The anticipated spud date is December 9, 2002. It is expected to take 14 days to drill the well.