District I (625 N, French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax (575) 393-0720

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax. (575) 748-9720 Dariet III

HOBBS OCD

State of New Mexico

Form C-101 Revised December 16, 2011

Permit

Energy Minerals and Natural Resources

DEC 2 2 2011

Oil Conservation Division

1000 Rio Brazos Read Phone (505) 334-617			1220 So	outh St. Franc	cis Dr.				
District IV 1220 S. St. Francis Dr Phone (505) 476-346	. Santa Fe. NM 875	OS RECEIV	/ED Sant	a Fe, NM 879	505				9
APPI	LICATIO	N FOR PERM	IT TO DRILL, R	E-ENTER,	DEEPE	N, PLUGB			ONE 20
		Operator Name BC Operat	ing, Inc.			160825	² OGRID Num	iber	\$
		P.O. Box Midland, Tex					API Numb	-397	24 8
* Property	Code		³ Property			-30-025-59/34		Well No.	─ ─┤_`
38	111			nton 6 State				2	<i>%</i>
UI - LOI	Section Town	ship Range		ce Location	1 S Line	Feet From	E/W Line	Cour	o
D	6 16				N	330	W	Le	্ আৰ
L				Information	1				70
SWD - Queen	1							961	
9 Work Ty		Well Type	Additional V			ease Type	1 13 6	round Level Eleva	, , , , , , , , , , , , , , , , , , ,
Plug Ba	ick	(SWD	✓ R		;	State		3751' GR	ion
¹⁴ Multip	le	Proposed Depth 6850'	16 Form Que	1	¹⁷ C	Contractor		¹⁸ Spud Date 1/6/11	ر الا
Depth to Ground	water		ance from nearest fresh water				o nearest surfac	e water	M
r			Proposed Casing	g and Ceme	ent Progr	am	1		
Турс	Hole Size	Casing Size	Casing Weight/ft	Setting		Sacks of C			
Surface Production	12 ¼" 7 7/8"	8 5/8" 5 ½"	24# 15.5#	650		103 980		Surface Surface	90
Open Hole	4 3/4"	N/A	N/A	6850' N/A				+ [
		Casi	ng/Cement Progra	am: Additio	onal Com	ments			0
			٠						
]	Proposed Blowou	t Preventio	n Progra	m			
	Туре	,	Working Pressure		Test Pressure	•	М	lanufacturer	
Double Ram 3000			3000	3000 3M				3M	
									<u>.</u>
of my knowledge I further certify	and belief. that the drillin	g pit will be construc			OIL CO	NSERVAT	ION DIVI	SION	oval he ·
OCD-approved p		rai permit 🔲, or an ((attached) alternative	Approved By:), .			Approval e into the approved
Signature La	m Ste	uens)		Wal	1000	hitalen			ים מי
Printed name: Pa	m Stevens			Title: Cou	10/12	Mo.	low		PROV/ IOT Disposal or Office
Title Regulato	ory Analyst			Approved Date	12-27	~2011 Ex	piration Date:	2/27/13	OR APPROVAL" Approve CANNOT Dispose into the a Disposal order approved OCD Office
E-mail Address:	pstevens@b	coperating.com						<u></u>	ıĭ. ∵ o
Date. 12/21/11		Phone: 12/2	1/11	Conditions of A	•				rion y only withou
Condition office 24 f	n of Appro	oval: Notify Oo to running MIT	CD Hobbs Test & Chart.	Pen	mit Expi Date Un	res 2 Year less Drilli Phys	s From A mg Under 3 bac	way	"CONDITION FOR APPROVAL" for Drilling only. CANNOT Dispose wellbore without a Disposal order by the Santa Fe OCD Office

DISTRICT 1 1625 N. French Dr., Hobbs, NM 88840

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102 Revised October 15, 2008

Submit one copy to appropriate District Office

OIL CONSERVATION DIVISION

DISTRICT III			OIL				ON DIVIS Francis Dr.	ION		
DISTRICT IV	i, Aztee, N	H 87410					lexico 87505			
1220 S. St. Francis Dr	., Sania Pe.	NM 87505							□ AMENDEI	REPORT
			WELL LO	CATION	AND .	ACREA	GE DEDICATI	ON PLAT		
30-02	Number 5-3	9734	1 40.	Pool Code,			SWD:	Quee.	1	
Property C	ode		_	SOUT	Prop	erty Nam			Well N	
OGRID No		-		3001		otor Nam		· · · · · · · · · · · · · · · · · · ·	Z Eleva	SWD
16082	25				BC OF				378	
				:	Surfac	e Loca	ation			
UL or let No.	Section	Township	Ronge	Lot ion	Feet fro	m the	North/South line	Feet from the	East/West line	County
D	6	16 S	38 E		33	50	NORTH	330	WEST	LEA
			Bottom	Hole Lo	cation I	1 Diffe	rent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill C	onsolidation	Code Or	der No.		<u> </u>			L
L	<u> </u>								· · · · · · · · · · · · · · · · · · ·	
NO ALLO	WABLE W						NTIL ALL INTER APPROVED BY '		EN CONSOLIDA	ATED
.eg	T						······································	OPERATO	R CERTIFICAT	rion
330'	1	SURFACE	LOCATION 52°57'55.70"	1		1		I hereby cer contained herein	lify that the inform	nation lets to
[[ļ	Long - W 10	03'11'36.91"	! !		!		the best of my	knowledge and belief i either owns a work issed mineral interesi	and that
!	, ,	NMSPCE- N E (NAD-		1		-		land including t	he proposed bottom i a right to drill this suant to a contract	hate
	1	(,	; ! .		-		i owner of such a	mineral or working	interest.
1	+			<u>-</u>		- 4 -		compulsiry pools	y posting agreement	entered by
	į					1		11 Steat	The mil)\\ia\\i
	1			! '		!		Signature	of Gools	Date
11])]		1 Stor 1	Harrel	1]]
	1) [1		Printed Name	- Mar a	
				<u> </u>		 - + -		SURVEYO	R CERTIFICAT	ION
<u> </u>	i		İ			i		11	that the well locati	11
	1		-						s platted from field made by me or	
	!		ļ			Į.		supervison and	that the same is best of my belief	true and
	1					1				·
]		i	1		i			ABERIO 2010	<u>'</u>
<u> </u>	<u>÷</u>		_	<u> </u>		- + -		Date Surveyed Signature At Professional	Cal of C	
	 			! ' 		l I		4-11-1	7977) [[
	ļ		, 			i		1 1 1 2 2		<u>'</u>
			l			1		New Year	No. 25	
	!		}			1		Certificate No.	Gary L. Jones	7977
L			i			_i_		BAS	SIN SURVEYS	

South Denton 6 State #2 SWD 330' FNL & 330' FWL, Sec. 6, T16S, R38E Lea County, New Mexico API# 30-025-39734

SWD Well Recompletion - Queen

Well Data

Tubing:

None

Casing:

5-1/2", 15.5#, J-55 @ 6500' with 980 sx

TD:

68501

PBTD: 6850*

Elevation:

3751, GL 12, KB

San Andres Perforations

5200' - 5222', 5230' - 5238', 5962' - 5970', 6230' - 6240', and 6322' - 6332'

4-3/4" Open Hole (Glorieta) 6500' – 6850'

Procedure

- 1. Comply with all company and governmental safety regulations.
- 2. Rig up pulling unit. ND wellhead and NU BOP.
- 3. TOH with packer and workstring.
- 4. MIRU wireline unit. Rig up wireline lubricator. Correlate to Baker open hole log dated 1/14/2011 with GR/CCL.
- 5. Set CIBP @ 6450' and cap with 35' of cement.
- 6. Set CIBP @ 5150' and cap with 35' of cement.
- 7. Perforate the Queen formation as follows:

3-1/8" Slick guns w / 60 degree phasing & Titan 23 gram Charges (EH-0:43, Pen-37)

Sta	ge #1	Queen			
Top Perf	Bottom Perf	SPF	# of Holes		
4,436	4,452	4	64		
4,342	4,352	6	60		
4,270	4,278	6	48		
4,210	4,240	4	120		
		Net H	64		
	,	Total Holes	292		
		Gross H	242		

Visually inspect that all charges have fired. RMDO wireline.

8. TIH with stimulation packer on 2-7/8", 6.5#, J-55 workstring. Set packer at +/-4,100'. Rig up pumping services company. Pressure up on backside to 300# and monitor backside pressure during acid job. Establish injection rate with water. Acidize Queen

- completion 4210' 4452' with 3000 gallons 15% HCl with no diverter. Avg rate 3 BPM. Overflush bottom of open hole with 20 bbl water. Run step rate injection test. TOH, laying down tubing and packer.
- 9. TIH with 5-1/2", 15.5# nickel plated injection packer (1.87" profile in on/off tool) on 3-1/2", 9.3#, J-55 fiberglass lined injection tubing. Set packer at +/-4160'. Pressure test casing/tubing annulus to 500# for 30 minutes. Flange up wellhead and rig down pulling unit. Schedule MIT with NMOCD.
- 10. ND BOP and NU wellhead. RDMO pulling unit. Perform MIT. Leave well shut in.

 Amend injection permit to cover the Queen formation.
- 11. Begin injection into the Queen formation. Gather injection test information and evaluate.

Contacts

Jason Wacker	Operations Mänager,	432-684-9696
Mike Parker	Workover Supervisor	325-450-5110
Val Saenz	Well Site Supervisor	575-631-9249

API NO. 30-025-39734 8. ELEV CHEV.	ASE & WELL NO.	South Denton 6 State	#2 SWD			IER NAME	Lea Co., NM
SIZE S-1/2" WEIGHT 15.5# DEPTH 6500' SIZE SIZE S-1/2" WEIGHT 15.5# DEPTH 6500' SIZE						1 -1, 15, 21, 1	
SIZE S-1/2" WEIGHT 15.5# DEPTH 6500' SIZE SIZE S-1/2" WEIGHT 15.5# DEPTH 6500' SIZE	ر آن گیری برد می از این از این از این					على الشريع المراجع الم المراجع المراجع المراج	
SIZE 8-5/8" WEIGHT 24.0# DEPTH 2019 SIZE 8-5/8" WEIGHT 24.0# DEPTH 2019 SX CMT 1035 sx TOC surface SIZE NOT 1035 sx TOC surface SX CMT 2035 sx TOC surface SX CMT 2035 sx TOC surface SX CMT 2035 sx TOC surface Inj Pkr € 4160" Perf 436-4452', 4342'-4353' 4270'-4278' 4210'-4240' SX CMT 2580 xx TOC surface CIBP € 5150' W 35' cmt PRODUCTION CASING SX CMT 980 sx TOC FRIDE PRODUCTION CASING PRODUCTION CASING SX CMT 980 sx TOC FRIDE Tipe 6850' xx CMT injection interval 5200' 6850' xx CMT injection in	s. ELEV.			QUEEN	N (PROPOSED		
SURFACE CASING SURFACE CASING SURFACE CASING SURFACE CASING SURFACE CASING SX CMT 20.98" DEPTH 20.19" DEPTH 20.19" SW CMT 20.98" DEPTH 20.19" SW CMT 20.98" SW CMT 20.98 S	** **			(4) (4)			
SIZE 8-5/8" WEIGHT 15-5 DEPTH 2019 SIZE 8-5/8" SX. CMT 1035 sx TOC @ surface SX. CMT 1035 s	OUND LEVEL	1 - 1 3781 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
SIZE 8-5/8" WEIGHT 24.04" DEPTH 2019 SX. CMT 1035 5x TOC @ surface SX. CMT 1035 5x TOC @ surface SIZE 11 HISTORY SIZE 15/2" WEIGHT 15.58 DEPTH 5500' SIZE 5-1/2" WEIGHT 15.58 DEPTH 5500' GRADE 550 5x CMT 1980 5x TOC @ PRID@ 6850' PRID@ 6850' PRID@ 6850' SX. CMT 1035 5x TOC @ surface SIZE 5-1/2" WEIGHT 15.58 DEPTH 5500' TD@ 6850' PRID@ 6850' SX. CMT 1035 5x TOC @ SX. CMT 1035							Lubing Description
SR. CMT 1035 sx TOC @ surface St. CMT 1035 sx TOC @ surface	CITE OF IOI					FG	3-1/2", 9:3#, J-55.
Inj Pkr @ 4160 Inj		SX. CMT. 1035 sx	TOC @ surface				
15/2010 APD Approved //2010 MMOCD Hearing for Injection Permit; permit approved //2010 Drilled well; no San Andrès porosity encountered Propose to deepen well by 350' to Glorieta //21/2011 Deepended to Glorieta & perforated San Andrés No injectivity - tight rock //22/2011 Perforate Queen Inj Pkr @ 4150' Perf 4436'-4452', 4342'-4353' 4270'-4278', 4210'-4240' CIBP @ 5150' w/ 35' cmt. Perf 6522'-5332' S230'-5232' SIZE 5-1/2" WEIGHT 15.5# DEPTH 6500' GRADE SX. CMT. 980 sx. TOC @ FIBTO 6850' PBTD@ 6850' PBTD@ 6850' TD@ 6850' San Andres & Glorieta PBTD@ 6850' San Andres & Glorieta PBTD@ 6850' San Andres & Glorieta PBTD@ 6850' San Andres & Glorieta San Andres & Glorieta Page 150' Page 150' Perf 6820' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 6822'-6332' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 6822'-6332' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 6822'-6332' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 6822'-6332' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 6822'-6332' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 6822'-6332' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 6822'-6332' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 6822'-6332' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 4436'-4452' Perf 6822'-6332' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 6822'-632' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 4836'-4452' Perf 4836'-4452' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 6822'-632' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 6822'-632' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 6822'-632' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' Perf 4836'-4452' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' CIBP @ 6450' w/ 35' cmt. Inj Pkr @ 4150' CIBP @ 6450' w/ 35							
MACCO Hearing for Injection Permit; permit approved 16/2011 Drilled well; no San Andres porosity encountered Propose to deepen well by 350' to Glorieta Propose to deepen well by 350' to Glorieta Propose to Gl	LL HISTORY						
16/2011 Drilled well; no San Andres porosity encountered Propose to deepen well by 350' to Glorieta Propose t	5/2010 APD Approved						
Propose to depen well by 350' to Glorieta 21/2011 Depended to Glorieta & perforated San Andres No injectivity - tight rock 22/2011 Perforate Queen. Inj Pkr @ 4160' Perf 4350' 4270' 4278' 4210' 4240' CIBP @ 5150' W/ 35' cmt Perf 6322' 6332', 6230' 6240' 5962' 5970' 5230'						The state of the s	
No injectivity - tight rock 22/2011 Perforate Queen Inj Pkr @ 4160 Perf 4436-4452', 4342' 4353'						(多数)	
Inj Pkr @-4160 Inj Pkr @-4160 Inj Pkr @-4160 Perf 4436'-4452', 4342'-4353' 4270'-4278', 4210'-4278'	21/2011 Deepended to	Glorieta & perforated San Ar	ndres				
Perf 4436'-4452', 4342'-4353i 4270'-4278', 4210'-4240'. CIBP @ 5150' w/ 35' cmt. Perf 6322'-6332', 6230'-6240'. SIZE PRODUCTION CASING SIZE 5-1/2" WEIGHT 15.5# DEPTH 6500'. GRADE SX: CMT. 980 sx TOC @ Injection Interval 5200' - 6850'. PBTD@ 6850'. PBTD@ 6850'. San Andres & Glorieta							
Perf 4436'-4452', 4342'-4353i 4270'-4278', 4210'-4240'. CIBP @ 5150' w/ 35' cmt. Perf 6322'-6332', 6230'-6240'. SIZE PRODUCTION CASING SIZE 5-1/2" WEIGHT 15.5# DEPTH 6500'. GRADE SX: CMT. 980 sx TOC @ Injection Interval 5200' - 6850'. PBTD@ 6850'. PBTD@ 6850'. San Andres & Glorieta							
Perf 4436'-4452', 4342'-4353i 4270'-4278', 4210'-4240'. CIBP @ 5150' w/ 35' cmt. Perf 6322'-6332', 6230'-6240' 5962', 5970'', 5230'-5238' 5200'-5222'. SIZE 5-1/2" WEIGHT 15.5# DEPTH 6500'. GRADE SX: CMT. 980 sx TOC @ PBTD@ 6850' TD@ 6850' San Andres & Glorieta						AND AND AND	
Perf 4436'-4452', 4342'-4353i							
Perf 4436'-4452', 4342'-4353 4270'-4278', 4210'-4240'. CIBP @ 5150' w/ 35' cmt. Perf 6322'-6332', 6230'-6240'. 5962', 5970'', 5230'-5238'. 5200'-5222'. GRADE SX: CMT. 980 sx TOC @ PBTD@ 6850' TD@ 6850' San Andres & Glorieta							
Perf 4436'-4452', 4342'-4353i 4270'-4278', 4210'-4240'. CIBP @ 5150' w/ 35' cmt. Perf 6322'-6332', 6230'-6240'. SIZE PRODUCTION CASING SIZE 5-1/2" WEIGHT 15.5# DEPTH 6500'. GRADE SX: CMT. 980 sx TOC @ Injection Interval 5200' - 6850'. PBTD@ 6850'. PBTD@ 6850'. San Andres & Glorieta	م به آن جو بود از پرس پرسمبروم به مربوع از د						
Perf 4436'-4452', 4342'-4353i 4270'-4278', 4210'-4240'. CIBP @ 5150' w/ 35' cmt. Perf 6322'-6332', 6230'-6240'. SIZE PRODUCTION CASING SIZE 5-1/2" WEIGHT 15.5# DEPTH 6500'. GRADE SX: CMT. 980 sx TOC @ Injection Interval 5200' - 6850'. PBTD@ 6850'. PBTD@ 6850'. San Andres & Glorieta							
Perf 4436'-4452', 4342'-4353i 4270'-4278', 4210'-4240'. CIBP @ 5150' w/ 35' cmt. Perf 6322'-6332', 6230'-6240'. SIZE PRODUCTION CASING SIZE 5-1/2" WEIGHT 15.5# DEPTH 6500'. GRADE SX: CMT. 980 sx TOC @ Injection Interval 5200' - 6850'. PBTD@ 6850'. PBTD@ 6850'. San Andres & Glorieta							
Perf 4436'-4452', 4342'-4353i 4270'-4278', 4210'-4240'. CIBP @ 5150' w/ 35' cmt. Perf 6322'-6332', 6230'-6240'. SIZE PRODUCTION CASING SIZE 5-1/2" WEIGHT 15.5# DEPTH 6500'. GRADE SX: CMT. 980 sx TOC @ Injection Interval 5200' - 6850'. PBTD@ 6850'. PBTD@ 6850'. San Andres & Glorieta	San			A			
Perf 4436'-4452', 4342'-4353i 4270'-4278', 4210'-4240'. CIBP @ 5150' w/ 35' cmt. Perf 6322'-6332', 6230'-6240'. SIZE PRODUCTION CASING SIZE 5-1/2" WEIGHT 15.5# DEPTH 6500'. GRADE SX: CMT. 980 sx TOC @ Injection Interval 5200' - 6850'. PBTD@ 6850'. PBTD@ 6850'. San Andres & Glorieta	الله المعالج ا والمعالج المعالج المعا						
A270"-4278", 4210" 4240" A270"-4278", 4210" 4280" A270"-4278", 4210"					Z X	inj Pkr @	4160'
A270"-4278", 4210" 4240" A270"-4278", 4210" 4280" A270"-4278", 4210"						Porf:AA2	C-44E3! 4343! 43E3!
Perf 6322'-6332' 6230'-6240' 5962'-5970', 5230'-5238' 5200'-5222' 5200'-5222'							
Perf 6322'-6332' 6230'-6240' 5962'-5970', 5230'-5238' 5200'-5222' 5200'-5222') . :						
Perf 6322'-6332' 6230'-6240' 5962'-5970', 5230'-5238' 5200'-5222' 5200'-5222'					XXX	CIBP @ 5	150' w/ 35' cmt
PRODUCTION CASING							
SIZE							
SIZE 5-1/2" WEIGHT 15.5# DEPTH 6500' GRADE SX: CMT. 980 sx TOC @ PBTD@ 6850' TD@ 6850' San Andres & Glorieta							
GRADE SX: CMT. 980 sx TOC @		11 1 5 2 5 1	PENTUS CEROL				
PBTD@ 6850 5200' - 6850 San Andres & Glorieta						CIBP @-6	450' w/ 35' cmt _ {
TD@ 6850' San Andres & Glorieta	110						
			1 1 1 1			* N	
	, .						
	· · · · · · · · · · · · · · · · · · ·						