4 Proper	161 Fax (57 uesta, NM 882 283 Fax (575 oad, Aztec, N 178 Fax (505 Dr , Santa Fe 460 Fax (505	5) 393-0720 10 5) 748-9720 M 87410 5) 334-6170 5) 3476-3462	<b>OR PERMI</b> <sup>'</sup> Operator Name BC Operati P.O. Box Midland, Tex	Energy Miner Oil Co 1220 S San IT TO DRILL, F and Address ng, Inc. 50820 cas 79710	onservation D outh St. Fran ta Fe, NM 87 <u>RE-ENTER</u>	ral Resour ivision cis Dr. 505 <b>, DEEPE</b>	JUL 3 Rec	<sup>2</sup> OGRID Nur <sup>3</sup> API Numb	nber	
UL - Lot D	Section 6	Township 16S	Range 38E		et from N 330	/S Line N	Feet From 330	E/W Line W	County Lea	
								<u> </u>		
				° Pool	Informatio	n			96127	
SWD – San	Andres	& Glorieta	l						<del>-96117</del>	
<sup>9</sup> Work	Type	r	<sup>10</sup> Well Type	Additional	Well Infor		Lease Type		Fround Level Elevation	
Plug	Back		SWD		R	State		3751' GR		
<sup>14</sup> Mu	ltiple		<sup>15</sup> Proposed Depth 6850'		mation es/Glorieta				<sup>18</sup> Spud Date 1/6/11	
Depth to Grou	nd water			ance from nearest fresh wa			Distance to nearest surface water			
			19	Proposed Casir	ig and Cem	ent Prog	ram		·····	
Туре	Hol	e Size	Casing Size	Casing Weight/ft		g Depth	Sacks of C	Cement	Estimated TOC	
Surface	12	. 1/4"	8 5/8"	24#	20	2019'		5	Surface	
Production	7 '	7/8"	5 1/2"			6500'		)	Surface	
Open Hole	4	3/4"	N/A	N/A	6	350'.	N/A	A	N/A	
			Casi	ng/Cement Prog	ram: Addit	ional Co	mments			
				Proposed Blowo	ut Preventi	on Progr	am			
	Туре			Working Pressure		Test Pressure			Manufacturer	
E	ouble R	am		3000		3000		3M		
Permit Expires 2 Years From Approval										
I further cert NMOCD guid OCD-approv	ify that th lelines ed plan	het. he drilling pi , a general j ].	given above is true it will be constru permit , or an	e and Dangel (Indes) & cted according to (attached) alternative	Approved By	OIL CO	ONSERVAT	TION DIV	ISION	
Signature:	Yam.	Ster	ens)			//	Lan	J		
Printed name: Pam Stevens Title Regulatory Analyst					Title: PETROL M. ENGINEER ApproActor: 0 3 2012 Expiration Date.					
						μ. U e Ζ		xpiration Date	·	
E-mail Addres	s <u>pstev</u>	rens@bcor	perating.com							
Date 07/26/12 Phone 432-684-9696				Conditions of Approval Attached						

HOBBS OCD

DISTRICT I 1825 N. French Dr., Hobbs, NM-88240 DISTRICT II 1301 W. Grand Avenue, Artesia, NM 68210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

# State of New Mexico AUG 0 2 2012 Energy, Minerals and Natural Resources Department OIL CONSERVATION DIVISIONED 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

Form C-102 Revised October 15, 2009

Submit one copy to appropriate District Office

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220 S. St. Francis Dr	., Santa Pé, f		WELL LO	CATIO	N AND ACR	EAGE DEDICAT	ION PLAT	C AMENDED	REPORT	
API Number				Pool Códe			Pool Name			
30-025-39734		96	9612'7 <b>S</b> WD - San Andre			es & Glorie	s & Glorieta			
Property Code		Property Name				Well. Number				
38111			SOL	TH DENTON			2 SWD			
OGRID No					Operator N BC ODER			Elevation 3781'		
160825 BC OPERATING, Inc. 3781 Surface Location										
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
D	6	16 S	38 E		330	NORTH	330	WEST	LEA.	
		<b>I</b>	Bottom	Hole I	ocation If Di	fferent From Su	rface		L	
UL or lot No.	Sèction	Township	Range	Lot 1dn	Feet from th	e North/South line	Feet from the	East/West line.	County	
Dedicated Acres	l loint a	r Infill Co	nsolidation	Code 1	Order No.				L	
Dedication werea	, somé é		Jusondacion .	Code						
NO ALLO	WABLE W					UNTIL ALL INTE N APPROVED BY		EEN CONSOLIDA	ATED	
0				1 1				R CERTIFICAT	TION	
330 <sup>-</sup> ¢	       	SURFACE Lot - N 3 Long - W 10 NMSPCE- N (NAD-	52*57*56.70" 03*11*36.91" 716967.203 890902.033	       +	           		the best of my this organization interest or unit land including location or has this location provides of such	rtify that the inform in is true and comp knowledge and belieg mether owns a word has proposed bottom. a right to drill this arsuant to a contract a mineral to a contract a mineral or working ry pooling agreement ling order heretofore	t in the ting t in the hole well at with an interest.	
				     	     		Signature	tevens	7 <u>/31/</u> 1 Date	
	 			 	 	·	SURVEYO	OR CERTIFICAT	TION	
	     			     	   		on this plat w actual surveys supervision ar correct to th	y that the well locat as plotted from field made by me or nd that the some is be best of my belie	i notes of under my true and	
	+                 			।             	·		- Date Survis Signetur & Protessiona	Surveyor Total No. 248		
	1	·		L			В	ASIN_SURVEYS		

## 7/25/2012

# 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 – Squeeze Queen & Frac San Andres & Glorieta

#### Well Data

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- . .

Tubing:	None							
Casing:	5-1/2", 15.5#, J-55 @ 6500' with 980 sx							
TD:	6850'	PBTD: 6850'		3751' GL	12' KB			
CIBP @ 4160' with 35' cmt on top								
Queen Perforations 4210' - 4240', 4270' - 4278', 4342' - 4352', and 4436' - 4452'								
CIBP @ 5150' w/ 35' cmt on top								
San Andres Perforations 5200' - 5222', 5230' - 5238', 5962' - 5970', 6230' - 6240', and 6322' - 6332'								
CIBP @ 6450' w/ 35' cmt on top								

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. Drill out CIBP @ 4160' and clean well out to 4500' with 4-1/2" bit and collars with reverse unit on 2-7/8" workstring. TOH with bit and collars. Set 7 frac tanks with fresh water for frac.
- 3. TIH with 5-1/2" cement retainer to 4110' and set retainer. Injection rate and pressure with water is +/-1 BPM @ 2660 psig. Design cement job accordingly. Squeeze cement below retainer. Sting out of retainer and reverse circulate two tubing volumes. TOH with stinger. WOC 12 hours.
- 4. Drill out CICR @ 4110', CIBP @ 5150', CIBP @ 6450', and clean well out to TD @ 6850' with bit and collars with reverse unit on 2-7/8" workstring. TOH with bit and collars.
- 5. TIH with 5-1/2" full bore stimulation packer on 3-1/2", N-80 workstring. Set packer at +/-5100'. Pressure test backside to 500 psig for 30 min and note any leaks.

- 6. MIRU pumping services. Fracture stimulate San Andres & Glorieta formations (5200'-6850') as designed. Under displace frac by 3 bbl to top perforation. Rig down pumping services. Leave well shut in and monitor tubing pressure for several hours. Bleed off pressure and TOH with treating packer, laying down 3-1/2" workstring.
- 7. TIH with 4-1/2" bit and collars on 2-7/8" workstring. Clean well out to TD with reverse unit. TOH with bit and collars.
- 8. TIH with packer on 2-7/8" workstring. Set packer @ +/-5150'. Conduct step rate injectivity test at 0.5, 1.0, 1.5, 2.0, 2.5, 3.0 and 3.5 BPM. Record pressures at each rate after injecting for 5 minutes at each step. TOH with packer, laying down workstring. ND BOP and NU wellhead. RDMO pulling unit.
- 9. Rig up pulling unit. ND wellhead and NU BOP.
- 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 +/-5150'. Pressure test casing/tubing annulus to 500# for 30 minutes. Flange up wellhead and rig down pulling unit. Schedule MIT with NMOCD.
- 11. ND BOP and NU wellhead. RDMO pulling unit. Perform MIT. Run water transfer line and set surface facilities. Begin injection into the San Andres and Glorieta formations. Gather injection test information and evaluate.

### **Contacts**

Jason Wacker	Operations Manager	432-684-9696
Val Saenz	Well Site Supervisor	575-631-9249