

District I
1625 N French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax (575) 393-0720
District II
811 S First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax (505) 334-6170
District IV
1220 S St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505



APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address RKI Exploration & Production, LLC 3817 NW Expressway, Ste.950, OKC, OK 73112		² OGRID Number 246289 ³ API Number 30-015-23816
⁴ Property Code 38754	⁵ Property Name Swearingen	⁶ Well No 1

⁷ Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
J	4	23S	28E		1650'	South	1980'	East	Eddy ✓

⁸ Pool Information

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Additional Well Information

⁹ Work Type E	¹⁰ Well Type S	¹¹ Cable/Rotary R	¹² Lease Type P	¹³ Ground Level Elevation 3104'
¹⁴ Multiple No	¹⁵ Proposed Depth 9450' CIBP	¹⁶ Formation Bone Spring	¹⁷ Contractor TBD	¹⁸ Spud Date 8/18/2011
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

¹⁹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	22.5	20.0"	95#	358'	530	Surface
Intermed.	14.75	13.375"	41#	2503'	1900	Surface
Prod.	11.75	9.625"	29.5#	10.003'	3250	3350'
Liner	nom.	7.0"	20#	9500'	1075	Surface

Casing/Cement Program: Additional Comments

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Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Manual blind ram	3000 psi	4500-5000 psi	Shaffer / Cameron

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC D guidelines <input checked="" type="checkbox"/> a general permit <input type="checkbox"/> or an (attached) alternative OCD-approved plan <input type="checkbox"/> . Printed name: Ben Stone Title: Agent for RKI E-mail Address: ben@sosconsulting.us Date: 8/12/2011 Phone: (903) 488-9850		<div style="text-align: center; border-bottom: 1px solid black; padding-bottom: 5px;">OIL CONSERVATION DIVISION</div> Approved By: Title: DIST #1 SUPERVISOR Approved Date: 08/16/2011 Expiration Date: _____ Conditions of Approval Attached	
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ATTACHMENT TO C-101

PROPOSED RE-ENTRY OPERATION

1. Prep wellhead for re-entry, MIRU workover rig, NU BOP equipment.
 2. TIH with 8.5" bit, drill out plugs and bridge plugs to the plug at 9,400'. Run CBL log. Pressure test casing to 500 psi. If casing test perforate Bone Spring as follows: 7,070 – 7,258' (188' @4 spf); 7,914 – 7,948' (34' @ 4 spf); 8,000 – 8,175' (175' @4 spf); 9,064 – 9,386' (322' @4 spf)
 3. If casing does not test, run 7" 26# N-80 casing and cement to surface. Above perfs will then be perforated and stimulated.
 4. TIH with 2 7/8" work string and packer, treat perfs as follows:
 - 1st Stage - 500 gal produced water / 2,500 gal 15% HCl / 1,000 gal brine with .5 ppg rock salt
 - 2nd Stage - 2,500 gal 15% HCl / 1,000 gal brine with .5 ppg rock salt
 - 3rd Stage - 2,500 gal 15% HCl & Flush with produced water
 5. Release packer and TOH with tubing. Run injection packer on 3 1/2" or 4 1/2" tubing. Place well on injection.
- Cement: 450 sx Extended with 5% D44, 28 pps D132, 6% D20, .2% D46, 2 pps D42 mixed at 12.6 ppg (2.06 cf/sk) followed by 625 sx Conventional with .3% D201 mixed at 14.8 ppg (1.33 cf/sk).