

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. 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 SOUTHWESTERN ENERGY PRODUCTION COMPANY 2350 N. SAM HOUSTON PKWY E HOUSTON , TX 77032		2. OGRID Number 148111
		3. API Number 30-015-36167
4. Property Code 36246	5. Property Name KARLSBAD CORRAL SWD	6. Well No. 002

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
M	11	25S	29E	M	350	S	350	W	EDDY

8. Pool Information

SWD;DELAWARE	96100
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Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3065
14. Multiple N	15. Proposed Depth 4800	16. Formation Cherry Canyon	17. Contractor	18. Spud Date
Depth to Ground water 750		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000

Pit: Liner: Synthetic ☒ 12 _____ mils thick Clay ☐ Pit Volume: 10000 _____ bbls Drilling Method:
 Closed Loop System ☐ Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	11	8.625	24	750	225	0
Prod	7.875	5.5	17	4800	735	0

Casing/Cement Program: Additional Comments

Drill 11" hole to 750' with fresh water, run 8-5/8" 24#, K-55 surface casing and set @ 750' with 225 sxs cement. Circulate to surface. Drill 7-7/8" hole to 4800', log and evaluate. Run 5-1/2" 17#, N-80 production casing to 4800' and cement to surface.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	2000	1000	

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 NMOCD guidelines <input checked="" type="checkbox"/> a general permit <input type="checkbox"/> or an (attached) alternative OCD-approved plan <input type="checkbox"/> .	OIL CONSERVATION DIVISION	
Printed Name: Electronically filed by Martha Howard	Approved By: Tim Gum	
Title: Staff Regulatory Analyst	Title: District Supervisor	
Email Address: martha_howard@swm.com	Approved Date: 3/14/2008	Expiration Date: 3/14/2010
Date: 3/4/2008	Phone: 281-618-4887	Conditions of Approval Attached

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

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

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name KARLSBAD CORRAL SWD	Well Number 2
OGRID No.	Operator Name SOUTHWESTERN ENERGY PRODUCTION COMPANY	Elevation 3065'


Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	11	25-S	29-E		350	SOUTH	350	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=414198.5 N X=614897.0 E</p> <p>LAT.=32.138204° N LONG.=103.962135° W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>James Alan Brinsley</i> 2/3/08 Signature Date JAMES ALAN BRINSLEY Printed Name</p>
		<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>NOVEMBER 15, 2007 Date Surveyed LA</p> <p>Signature & Seal of Professional Surveyor <i>Ronald J. Eidson</i> 11/28/07 07.11.1651</p>
		<p>Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239</p>

Permit Comments

Operator: SOUTHWESTERN ENERGY PRODUCTION COMPANY , 148111

Well: KARLSBAD CORRAL SWD #002

API: 30-015-36167

Created By	Comment	Comment Date
MHOWARD	THIS WELL IS BEING DRILLED AS A SWD ONLY AT THIS TIME. THE WELL TYPE CATEGORY DOES GIVE ME THAT OPTION.	3/4/2008
MHOWARD	I uploaded three additional pages with the well location plat. They do not appear to have attached. They included the directions to location, vicinity map and location verification map.	3/4/2008

Permit Conditions of Approval

Operator: SOUTHWESTERN ENERGY PRODUCTION COMPANY , 148111

Well: KARLSBAD CORRAL SWD #002

API: 30-015-36167

OCD Reviewer	Condition
kmwilson	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
kmwilson	Operator must use fresh water mud when drilling surface hole.
kmwilson	Operator is required to have a cement bond log.
kmwilson	Cement must cover salt stage(1680' to 2900').
kmwilson	Operator must set stage tool in production casing around 3000'.