

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
June 16, 2008

RECEIVED

JUL 30 2010

HOBBSOCD

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address SandRidge E&P, LLC. 123 Robert S Kerr Ave OKC OK 73102-6406		² OGRID Number 270265
		³ API Number 30 - 025-32925
³ Property Code 309607	⁵ Property Name Caprock Maljamar Unit	⁶ Well No. 149
⁹ Proposed Pool 1 Queen		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no. K	Section 18	Township 17S	Range 33E	Lot Idn	Feet from the 1339	North/South line S	Feet from the 2685	East/West line W	County Lea
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⁸ Proposed 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
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Additional Well Information

¹¹ Work Type Code a	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code State	¹⁵ Ground Level Elevation 4223
¹⁶ Multiple	¹⁷ Proposed Depth 4950	¹⁸ Formation Queen	¹⁹ Contractor	²⁰ Spud Date 06/30/10

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
ON FILE					
NO CHANGE					

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Well was originally completed in the Maljamar;Grayburg-San Andres. It is proposed to add the Queen formation and downhole commingle as per Attached procedure.

Yates, Seven Rivers, Queen not part of Caprock Maljamar Unit. Operator will have to rename property to produce from these zones.

Permit Expires 2 Years From Approval
Date Unless Drilling Underway

OCD CONDITION OF APPROVAL of Drilling:
Intent to drill ONLY --- CANNOT produce until the Non-Standard Location has been approved by OCD Santa Fe office.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Terri Stathem

Printed name:
Terri Stathem

Title:
Regulatory Manager

E-mail Address:
tdstathem@sdrge.com

Date: 7/27/10

Phone:
405-429-5500

OIL CONSERVATION DIVISION

Approved by:

Title:

PETROLEUM ENGINEER

Approval Date:

DEC 01 2010

Expiration Date:

Oil Conservation Division

Conditions of approval : Approval for drilling/workover ONLY--- CANNOT produce Downhole Commingled until DHC is approved in Santa Fe.

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State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised July 16, 2010

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-32925	² Pool Code 49970	³ Pool Name Pearshall Wildcat; Queen
⁴ Property Code 14578	⁵ Property Name Caprock Maljamar Unit	
⁷ OGRID No. 270265	⁸ Operator Name Sandridge Exploration and Production, LLC	
		⁶ Well Number 149
		⁹ Elevation 4223

¹⁰ Surface Location

UL or lot no. K	Section 18	Township 17S	Range 33E	Lot Idn	Feet from the 1339	North/South line South	Feet from the 2685	East/West line West	County Lea
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¹¹ 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
¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL-3504						

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>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <u>Donald W. Tally, Jr.</u> Date: <u>7/23/10</u></p> <p>Donald W. Tally, Jr. Printed Name</p> <p>dtally@sdrgc.com E-mail Address</p>
	<p>¹⁸ 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>2/23/1995</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p>
	<p>P. R. Patton - 8112</p>
	<p>Certificate Number</p>



K-17-175-338

SandRidge Tertiary, LLC

6 Desta Drive, Suite 6300 • Midland, TX 79705 • Phone 432.687.4242 • Fax 432.687.4244 • sandridgenergy.com

Caprock Maljamar Unit #149
API # 30-025-32925

Clean out and Acidize Current Perforations - Add Perfs in Queen/Seven Rvrs / Yates

Procedure

Procedure:

- 1) Hot water well 48 hrs before rigging up.
- 2) Test Anchors.
- 3) MIRU Well Service Unit.
- 4) Pull rods and pump.
- 5) ND Wellhead and NU BOP.
- 6) Release TAC and pull tubing.
- 7) PU bit sub & 4 3/4" bit on tubing
- 8) Run in and tag up. PBSD is 4480'.
- 9) If necessary, MIRU Reverse Unit and proceed. If no clean out needed, skip to step #16.
- 10) PU 4 3/4" bit on 6 – 3 1/4" drill collars on tubing.
- 11) RIH to top of fill.
- 12) Break circulation and drill / circulate hole clean to 4480
- 13) At +/- 4480 circulate until water cleans up.
- 14) Pull tubing and laydown tools.
- 15) RDMO Reverse Unit.
- 16) Pick up RBP & Treating Packer on tubing.
- 17) Hydro Test tubing in hole.
- 18) RIH & set RBP @ 4400'
- 19) Pull up land packer @ +/-4150'

CMU #149 ADD QUEEN-7R-YATES PROCEDURE.DOC

- 20) RU Acid company with 2000 gallons 15% NEFE Anti-Sludge HCl acid containing H₂S scavenger for 5000 ppm H₂S + 1% by volume mutual solvent. Have 1200# graded rock salt and 10# brine on location for diversion.
- 21) Spot acid to packer and set packer.
- 22) Acidize perfs 4203-4371 in 4 equal stages using graded rock salt for diversion.
- 23) Flow back until well dies
- 24) Swab back load.
- 25) Release packer.
- 26) RIH washing salt if necessary to retrieve RBP.
- 27) Latch and release RBP.
- 28) Pull and set RBP @ 3800'
- 29) Pull and LD packer.
- 30) Rig up wireline company and Perforate **Queen (2 JSPF) 3635 – 3659 (49 holes)**.

Reference Log – Halliburton Dual Spaced Neutron Log dated 1-27-1996

- 31) Pull guns and rig down wireline company.
- 32) PU packer on tubing and run in hole to 3660'
- 33) RU Acid company with 2000 gallons 15% NEFE Anti-Sludge HCl acid containing H₂S scavenger for 5000 ppm H₂S + 1% by volume mutual solvent. Have 1200# graded rock salt and 10# brine on location for diversion.
- 34) Spot acid across perfs.
- 35) Pull packer to 3550' and reverse acid into tubing.
- 36) Set packer.
- 37) Acidize perforations 3635-3659 in 4 equal stages using rock salt for diversion.
- 38) Flow and swab back load to check for productive capacity.
- 39) Release packer and retrieve RBP.

NOTE: Depending on productive capacity of Queen, it may be tested separately for up to 30 days.

NOTE: Additional perforations in Seven Rivers & Lower Yates may be added in a separate procedure for perforating and stimulation.

- 40) Run pumping equipment.
- 41) Test well and stabilize
- 42) As soon as well stabilizes, perform scale scale squeeze.