

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

Record Clean Up

¹ Operator Name and Address SandRidge E&P LLC 123 Robert S Kerr Avenue OKC OK 73102-6406					² OGRID Number 270265									
³ Property Code 306907					⁵ Property Name Caprock Maljamar					⁶ Well No. 208				
⁹ Proposed Pool <i>Wildcat</i> Yates / Seven Rivers / Queen					¹⁰ Proposed Pool 2									
⁷ Surface Location														
UL or lot no. M	Section 20	Township 17S	Range 33E	Lot Idn	Feet from the 1175	North/South line S	Feet from the 175	East/West line W	County Lea					

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 4114
¹⁶ Multiple	¹⁷ Proposed Depth 4850	¹⁸ Formation Yates / Seven Rivers / Queen	¹⁹ Contractor	²⁰ Spud Date

²¹ Proposed Casing and Cement Program

Hoie 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 Yates, Seven Rivers, and Queen formations and downhole commingle as per the attached procedure.

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

Oil Conservation Division

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

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:
tstathem@sdrge.com

7/27/10 405-429-5500

OIL CONSERVATION DIVISION

Approved by:

[Signature]

Title:

PETROLEUM ENGINEER

Approval Date:

DEC 01 2010

Expiration Date:

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

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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 30-025-33084	² Pool Code 49970	³ Pool Name wc; Seven Rivers / wc; Pearsal Juen
⁴ Property Code 14578	⁵ Property Name Caprock Maljamar Unit	⁶ Well Number 208
⁷ OGRID No. 270265	⁸ Operator Name Sandridge Exploration and Production, LLC	⁹ Elevation 4114

¹⁰ Surface Location

UL or lot no. M	Section 20	Township 17S	Range 33E	Lot Idn	Feet from the 1175	North/South line South	Feet from the 175	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
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¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

	¹⁷ OPERATOR CERTIFICATION 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 or to heretofore entered by the division. Signature: <u>Donald W. Tally, Jr.</u> Date: <u>7/26/10</u> Donald W. Tally, Jr. Printed Name <u>dtally@sdrge.com</u> E-mail Address
	¹⁸ SURVEYOR CERTIFICATION 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. 5/18/1995 Date of Survey Signature and Seal of Professional Surveyor: P. R. Patton - 8112 Certificate Number



SandRidge Tertiary, LLC

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

Caprock Maljamar Unit #208 API # 30-025-33084

Clean out, Add Pay, and Acidize Current Perforations Procedure

Procedure:

NOTE: Well is currently down with a hole in the tubing.

Tubing is stuck. Free point determined to be 3430. Cut tubing @ 3415. Ran in w/ OS & Grapple, bumper sub & drill collars. Jarred on fish. Recovered 307' tubing. Top of Fish now 3722.

- 1) RIH w/ overshot & grapple, bumper sub, and drill collars.
- 2) Engage TOF @ 3722 and attempt to jar free.

Following this trip, determination will be made on whether or not to continue fishing operations.

- 3) PU Bit and RIH to tag up (PBTD - 4800').
- 4) If necessary, MIRU Reverse Unit and proceed. If not needed, skip to Step No. 16.
- 5) PU 4 3/4" bit on 6 - 3 1/4" drill collars on tubing.
- 6) RIH to top of fill.
- 7) Break circulation and drill / circulate hole clean to 4550'.
- 8) At +/- 4550, circulate until water cleans up.
- 9) Pull tubing and laydown tools.
- 10) RDMO Reverse Unit.
- 11) RU Wireline and run GR/CNL/CCL from PBTD to 2000'.
- 12) Pull Tools and RD Wireline.
- 13) Pick up Treating Packer and RBP on Workstring.
- 14) Hydro Test tubing in hole.
- 15) Set RBP and Packer to straddle perms 4441-4472
- 16) Rig up Acid Company with 6000 gallons 15% NEFE Anti-Sludge Hydrochloric Acid containing H₂S scavenger for 5000 ppm H₂S. Have 3000# Graded Rock Salt and Transport with 10# Brine for diversion.
- 17) Acidize perms 4441-4472 with 1000 gallons.

CMU #208 Acidize Procedure.Doc

- 18) Flow back until well dies
- 19) Release packer and retrieve RBP.
- 20) Pull up and straddle perfs 4369-4387
- 21) Acidize perfs 4369-4387 with 1000 gallons.
- 22) Flow back until well dies
- 23) Release packer and retrieve RBP.
- 24) Pull up and straddle perfs 4297-4324
- 25) Acidize perfs 4297-4324 with 1000 gallons.
- 26) Flow back until well dies
- 27) Release packer and retrieve RBP.
- 28) Pull up and straddle perfs 4247-4277
- 29) Acidize perfs 4247-4277 with 1000 gallons.
- 30) Flow back until well dies
- 31) Release packer and retrieve RBP.
- 32) Pull up and straddle perfs 4107-4179
- 33) Acidize perfs 4107-4179 with 2000 gallons.
- 34) Flow back until well dies
- 35) Release packer and retrieve RBP.
- 36) Move RBP below 4465'
- 37) Move packer above 4107'
- 38) Swab back acid load
- 39) Release packer and retrieve RBP
- 40) Pull up and set RBP @ 4000'.
- 41) Pull tubing and lay down packer

CMU #208 Acidize Procedure.Doc

42) RU Wireline and run Perforate Queen / Seven Rivers with 2 JSPF:

3022	-	3024	5	holes	
3043	-	3054	23		Reference Log:
3078	-	3080	5		Halliburton Dual Spaced Neutron Log
3138	-	3140	5		Dated: 2/15/1996
3148	-	3151	7		
3162	-	3164	5		
3179	-	3185	13	63	
3243	-	3245	5		
3254		3255	3		
3257		3259	5	13	
3292		3293	3		
3298		3300	5		
3321		3328	15		
3346		3349	7		
3353		3367	29		
3388		3395	15		
3443		3447	9	83	
3501		3504	7		
3506		3509	7		
3524		3528	9		
3537		3539	5		
3587		3600	27	55	

Total 214 Holes

43) PU RBP & packer on tubing.

44) RIH and straddle perfs 3501-3600

45) RU Acid company with 5000 gallons 15% Anti-Sludge NEFE HCl containing H₂S Scavenger for 5000ppsm H₂S.

46) Acidize perfs with 1000 gallons

47) Flow back until well dies

48) Release packer and retrieve RBP

49) Pull up and straddle perfs 3292-3447.

50) Acidize perfs with 2000 gallons.

51) Flow back until well dies

52) Release packer and retrieve RBP

53) Pull up and straddle perfs 3243-3259.

CMU #208 Acidize Procedure.Doc

- 54) Acidize perfs with 500 gallons.
- 55) Flow back until well dies
- 56) Release packer and retrieve RBP
- 57) Pull up and straddle perfs 3022-3185.
- 58) Acidize perfs with 1500 gallons.
- 59) Flow back until well dies
- 60) Release packer and retrieve RBP
- 61) Move RBP back below 3600'.
- 62) Pull up and set packer above 3000'
- 63) Swab remainder of load.
- 64) Release packer and retrieve RBP.
- 65) Pull and lay down tools.
- 66) Run in with retrieving head and release RBP @ 4000'.
- 67) Pull and lay down workstring and tools.
- 68) Re-run production equipment
- 69) Hang well on and test.
- 70) As soon as well stabilized, perform scale squeeze.

Pending swab results in Step #63, Midland may want to place Queen / Seven Rivers on production for a short production test prior to pulling plug above Grayburg.