

1000 Rio Brazos Rd., Aztec, NM 87410

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

DEC 02 2005
DeSoto/Nichols 12-93 via

Well: **Mark Owen #3**

Reservoir: **Grayburg**

Location:
1980'-FSL & 960' FEL
Section: 34
Township: 21S
Range: 37E
County: LEA, NM.

Elevations:
GL:
DF:
KB:

Proposed
Wellbore Diagram

Well ID Info:
Refno: FA8119
API No: 3002507022
L5/L6: UCU490400
Spud Date:
Compl. Date:

Surf. Csg:
Size 13 3/8
Weight 48#
Set @ 395'
With: 300 sxs
Hole Size:
Circ: Yes
TOC @ Surface

Int. Csg:
Size 9 5/8
Weight 35#
Set @ 2850'
With: 1300 sxs
Hole Size:
Circ: No
TOC @ 1530' by TS

Grayburg
Perfs: **Status**
3600'-3683' Sqz 'd

Grayburg
Perf Status
3666'-3845'

Blinbry
Perfs: **Status**
5480'-5803' Open

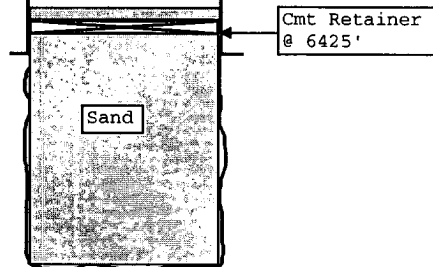
RBP @ 5460' w/ 20' sand

Prod. Csg:
Size 7"
Weight 23#
Set @ 6434'
With: 700 sxs
Hole Size:
Circ: No
TOC @ 2830' by TS

Drinkard
Perfs: **Status**
6315'-6404' Open

PBTD: 6425'
TD: 6550'

Cmt Retainer
@ 6425'



Updated: 13-Dec-04
By: Keith Lopez

Mark Owen #3
API #30-025-07022
1980' FSL & 960' FEL
S34, T21S, R37E
Penrose Skelly
Lea County, New Mexico

PROCEDURE

Use 8.6 ppg brine water.

1. Displace flowline w/ fresh water. Have Field Specialist close valve at header. Pressure test line according to type. All polypipe (SDR7 and SDR11) will be tested to 100 psi. All steel lines will be tested to 500 psi. If a leak is found, contact Donnie Ives for repair/replacement. If tests good, bleed off pressure and open valve at header. Document this process in the morning report.
2. MIRU Key PU & RU. Bleed any pressure off well. Use 8.6 ppg brine water to kill well. POOH w/ rods & pump (see Tbg Detail). NDWH NUBOP & EPA equipment. Test BOP when possible. POOH w/ 2-7/8" Tbg (see Tbg Detail).
3. RIH w/ 6-1/8" bit on 2-7/8" WS to 4200'. POOH & LD bit.
4. MIRU WL. Perforate the following intervals with 3-1/8" slick guns loaded w/ 4 JSPF, 120 degree phasing and 23 gram charges tied back to BakerAtlas CPNL log dated (2/4/2005). RD Baker Atlas WL.

Top Perf	Bottom Perf	Total Footage	Total Holes
3690	3692	2	8
3700	3703	3	12
3852	3856	4	16
3859	3868	9	36
3874	3880	6	24

5. RIH w/ 7" PPI packer w/ 12' element spacing and SCV. Test 2-7/8" WS to 3500 psi while RIH. Test PPI packer in blank pipe. Mark settings.
6. MIRU DS. Spot acid across perforated interval. Acidize perfs 3666'-3880' w/ 4,250 gals 15% NEFE HCl acid at a max rate of 1/2 BPM on new perfs and 3 BPM on old perfs observing a max surface pressure of 3,500 psi as follows:

Perfs	Acid Volume	Max Rate	PPI Setting
3666-3668	250 gals	3 bpm	3661-3673
3677-3679	250 gals	3 bpm	3672-3684
3690-3692	250 gals	1/2 bpm	3685-3697
3700-3703	250 gals	1/2 bpm	3695-3707
3717-3720	250 gals	3 bpm	3710-3722
3724-3728	250 gals	3 bpm	3722-3734
3750-3757	250 gals	3 bpm	3748-3760
3763-3766	250 gals	3 bpm	3760-3772
3773-3778	250 gals	3 bpm	3770-3782
3789-3799	250 gals	3 bpm	3788-3800
3802-3807	250 gals	3 bpm	3800-3812
3813-3819	250 gals	3 bpm	3810-3822
3825-3835	250 gals	3 bpm	3824-3836
3840-3845	250 gals	3 bpm	3838-3850
3852-3856	250 gals	1/2 bpm	3846-3858
3859-3868	250 gals	1/2 bpm	3858-3870
3874-3880	250 gals	1/2 bpm	3873-3885

Displace acid w/ 8.6# brine to top perf. Record ISIP, 5, and 10 SIP. RD DS. **If communication occurs during treatment, attempt to put away stage without exceeding 1,000 psi csg pressure. If stage can not be completed move to next and combine stage volumes.**

7. SI well for 2 hrs for acid to spend. Release PPI & PU above top perf. RU swab and swab back load before SION if possible. Record volumes, pressures, & fluid levels. Discuss results with Engineering.
8. MIRU pump truck. Pump down tbq w/ 50 bbls 8.6 PPG cut brine water containing 110 gals Baker RE-4777 Scale Inhibitor followed by 200 bbls 8.6 PPG cut brine water @ 5 BPM & 2500 psi max pressure. RD pump truck. POOH & LD PPI pkr.
9. RIH w/ 2-7/8" production tbq & hang off as per ALS recommendation. NDBOP NUWH. RIH w/ rods & pump as per ALS recommendation.
10. RD Key PU & RU. Turn well over to production. Contact Lease Operator and inform them that the well is ready for operation.

Engineer - Keith Lopez
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