

Skelly Unit 23

Eddy County, NM

K-14-17S-31E 1980 FSL 1980 FWL

30-015-05145

1/10/12

Project Scope: Plug and Abandon the wellbore

Non Routine Equipment Needs:

Class "C" Cement

Bit/Scraper for 4-1/2" 11.6# Casing

CIBP for 4-1/2" 11.6# Casing

Mud Laden fluid – Minimum of 9 ppg (mixed at 25 sx per 100 barrels of water)

Procedure:

1. Test anchors prior to rigging up
2. MIRU plugging rig
3. Check casing and tubing pressures
4. Bleed off pressure and kill well as necessary.
5. NUBOP
6. TOOH with 2-3/8" IPC tubing and AD-1 Packer and LD.
7. PU bit and scraper and TIH to 3300' to ensure that the wellbore is clear to run a CIBP.
8. TOOH and LD bit/scraper.
9. **(Set CIBP)** TIH and set CIBP inside of 4-1/2" casing @ 3250'.
10. PU work string and TIH to spot plug 1.
11. **(PLUG 1)** Spot 25 sx of Class "C" cement on top of CIBP @ 3250' (estimated TOC will be at 2872')
WOC 4 hrs and tag no lower than 3130'.
12. Circulate the hole with mud laden fluid.
13. **(PLUG 2)** Spot 15 sx of Class "C" cement at 2040' (estimated TOC will be @ 1868'). WOC 4 hours and tag no lower than 1940'. This plug is to cover a previous perforation for a casing sqz.
14. **(Plug 3)** Perforate @ 1758'. Spot and sqz 35 sx of Class "C" cement at 1758' (estimated TOC will be @ 1357') WOC and tag no lower than 1247'. This plug is to cover the base of the salt.
15. **(Plug 4)** Perforate @ 822'. Spot and sqz 35 sx of Class "C" (estimated TOC will be @ 421'). WOC and tag no lower than 722'. This plug is to cover the base of the surface casing shoe.

Contact Information:

David Gonzales – Assét Engineer
Cell – 832-350-6334
Office – 281-840-4055

Ron Ragland - Foreman
Cell – 575-942-8675

16. **(Plug 5)** Perforate @ 60'. Establish circulation. Pump Class "C" cmt (estimated 22 sx to get circulation) down the 4-1/2" casing and circulate up the annulus between the 4-1/2" casing and 8-5/8" casing. Ensure that cement is adequately displaced behind pipe and inside of the 4-1/2" casing.
17. Cut off the wellhead, cap the well, and install a dry hole marker.
18. RD P&A rig.
19. Clean location and schedule the inspection of the location.

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Well Name
Location
API #

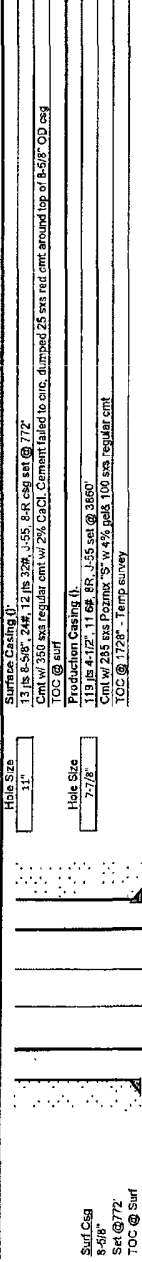
SKELLY UNIT 23
K-14-175-31E 1980 FSL 1986 FMI
EDDY COUNTY, NM
30-015-05145

Elevations:
Depths (KB)

GROUND: 3899'
DF- 3909'
PBDT 3854'
TD 3860'

Wellbore Schematic

Date Prepared: 17-Nov-11 K MURPHY
Last Updated:
Spud Date: 21-Jan-62
RR Date
Spud Date to RR Date
Completion Start Date
Completion End Date
Completion Total Days
Co-ordinates

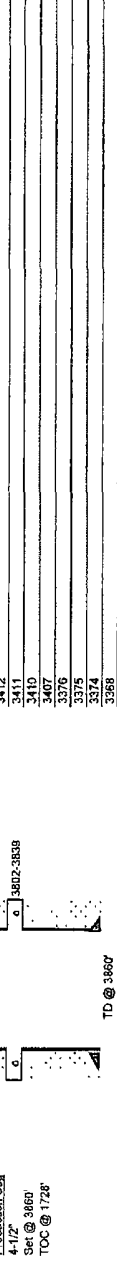


Surface Casing 0"
13 lbs 8-5/8" 248', 12 lbs 3 3/4" J-55 8-R csg set @ 772'
Cmt w/ 350 lbs regular cmt w/ 2% CaCl₂ Cement failed to circ, dumped 25 sec ret cmt around top of 8-5/8" OD csg
TOC @ surf
Production Casing 0"
119 lbs 4-1/2" 11 6# 8R J-55 set @ 3660'
Cmt w/ 235 lbs Pozmix "S" w/ 4% poly 100 lbs regular cmt
TOC @ 1728' - Temp survey
Tubing (From WV report dated 8/14/2009)
105 lb 2-3/8" IPC
4-1/2" AD-1 PK @ 3278'
Length (ft)

Notes:
Top of Salt - 719'
Base of Salt - 1708'

Perforations

| |
|-----------|
| 3832-3839 |
| 3821-3824 |
| 3814-3817 |
| 3802-3806 |
| 3782-3785 |
| 3756-3759 |
| 3680-3689 |
| 3606-3638 |
| 3559-3603 |
| 3583-3595 |
| 3561 |
| 3560 |
| 3549 |
| 3546 |
| 3541 |
| 3540-3542 |
| 3534-3510 |
| 3498 |
| 3478 |
| 3452 |
| 3455 |
| 3438 |
| 3432 |
| 3412 |
| 3410 |
| 3413 |
| 3412 |
| 3411 |
| 3410 |
| 3407 |
| 3376 |
| 3375 |
| 3374 |
| 3368 |
| 3349 |
| 3332 |
| 3316 |
| 3309 |



Production Csg
4-1/2"
Set @ 3660'
TOC @ 1728'

Well Name:

Location:

API #

Elevations:

Depth (KB):

SHELL UNIT 23

K14-175-331E - 1980 FSL - 1980 FRL

EDDY COUNTY, NM

30-015-051745

Proposed PAA Wellbore Schematic

Date Prepared: 17-Nov-11

Last Updated: 10-Jan-12

Pre Date: 21-Jan-02

RR Date:

Spud Date to RR Date:

Completion Start Date:

Completion End Date:

Completion Total Days:

Co-ordinator:

K MURPHY

D GARZANO

CHOUND:

DP:

PEID:

ID:

3339

3337

3334

3339

Hole Size

31"

Cat Class Cement

7 7/8"

Hole Size

7 7/8"

Surface Casing (1)

13 to 8' 50" 7.25% 12 lbs 52# 1.55 GR 150 gal @ 772'

CMW 350 500 lbs regular cement w/ 2% CMC Cement failed to cure, dumped 25 sac and cement around top of 12-3/8" OD case

TOC @ Surf

Production Cement (1)

119 to 4-1/2' 11.89 BR 7.55 gal @ 3860'

CMW 285 500 lbs Poz. TX. S. W. 4% gel. 100 sac regular cement

TOC @ 1728' - Temp survey

Length (ft)

Notes:

105 to 2-3/8" FC

4-1/2' AD-1.0ft @ 3278'

Notes:

Top of Salt - 719'

Base of Salt - 1701'

Particulates:

3632-3638

3621-3624

3614-3617

3602-3608

3182-3185

3156-3158

3180-3189

3096-3098

3268-3003

3593-3595

3981

3960

3548

3547

3540-3542

3504-3510

3488

3473

3458

3455

3438

3433

3415

3414

3413

3412

3411

3410

3407

3375

3374

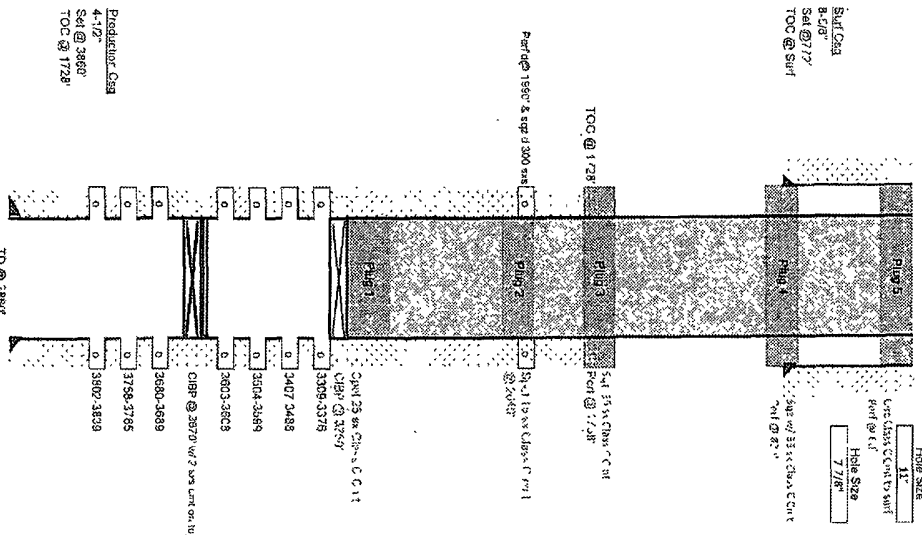
3358

3349

3332

3319

3309



Productive Case
4-1/2"
Set @ 3860'
TOC @ 1728'

TO @ 3860'

Part @ 1890' & set @ 390' set

TOC @ 1728'

Set @ 3860' Cement

Part @ 1728'

Part @ 1890' & set @ 390' set

Set @ 3860' Cement

Part @ 1728'

CMW 25 sac Poz. TX. S. W. 4% gel

CMW @ 3269'

CMW @ 3378'

3407-3488

3381-3389

3803-3808

CMW @ 3870' w/ 2 sac unit on top

3880-3889

3788-3795

3807-3809