

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John H. Bemis
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division



March 13, 2012

Cherry Hlava
BP America Production Company
501 Westlake Park Blvd,
Rm3.340B
Houston, TX 77079

Re: Order SWD-225 – Disposal Tubing Diameter

Gallegos Canyon Unit Well No. 307 (API 30-045-24248)
1455 FSL, 510 FWL, Unit letter L, Sec 30, T29N, R12W, NMPM, San Juan County
Injection into the Mesaverde formation, Depths: 2785 to 3500

You have submitted a request on behalf of BP America Production Company, to increase the disposal tubing in this well from 2-3/8 inch as specified in the above referenced permit to 2-7/8 inch diameter in order to increase the well's disposal capacity.

The Division finds that granting this request will not harm fresh water or the environment and should be approved.

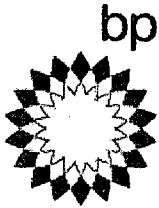
All requirements of the above referenced disposal permit and in Division Rules regarding injection or disposal remain in full force and effect.

A handwritten signature in black ink, appearing to read "Jami Bailey", is written over a horizontal line.

JAMI BAILEY
Director

JB/wvjj

Cc: Oil Conservation Division – Aztec
File: SWD-225 and API: 30-045-24248



BP America Production Company

Cherry Hlava
Regulatory Analyst
501 Westlake Park Boulevard, Rm 3.340B
Houston, Texas 77079
281-366-4081

February 17, 2012

New Mexico Oil Conservation Fiv
Attn: Will Jones
1220 South St. Francis Dr
Santa Fe, NM 87505

RE: GCU 307
Order No. SWD 225 May 21, 1980
30-045-24248
Section 30 29N & 12W

Will,

BP's original C-103 dated 1/23/12 & approved by Aztec district office (see attached) did not mention upsizing the tubing because we were not sure the new tubing size would be available.

After reading the SWD order 225 approved May 21, 1980 we realized we need permission to upsize the tubing.

BP respectfully requests permission to change the tubing size from 2 3/8" to 2 7/8" in order to reduce injection friction pressure.

Please see attached wellbore, order and approved sundry with procedure.

Sincerely,

Cherry Hlava

Cherry Hlava
Regulatory Analyst

cc: Charlie Perrin
Aztec District Supervisor

RECEIVED OGD
2012 FEB 20 P 3:11

Jones, William V., EMNRD

From: Hlava, Cherry L [Cherry.Hlava@bp.com]
Sent: Tuesday, February 21, 2012 12:41 PM
To: Jones, William V., EMNRD
Subject: GCU 307 Future Wellbore Diagram
Attachments: GCU 307 WellboreDiagram2-21-12.xls

Will,

After talking to the engineer there is no reason the packer can't be set 50' above the top MV perf. Please see attached wellbore diagram.

Perfs are 2785' - 2830' & 2845' - 2886'

<<GCU 307 WellboreDiagram2-21-12.xls>>

Cherry Hlava

BP America Production
San Juan So.
WL 1 Room 3.340B
281-366-4081

Jones, William V., EMNRD

From: Hlava, Cherry L [Cherry.Hlava@bp.com]
Sent: Tuesday, March 13, 2012 7:02 AM
To: Jones, William V., EMNRD
Cc: Perrin, Charlie, EMNRD
Subject: RE: Requested Tubing Size Increase SWD-225 BP America

Will,

There is an approved "Modification of SWD 225". In orders under 30-045-24248; top row, 3rd document's last page. You will see the perfs 2785-2886 approved
. I'll scan and send to you if you can't find it.

Cherry Hlava
BP America Production
San Juan So.
WL 1 Room 3.340B
281-366-4081

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Monday, March 12, 2012 5:21 PM
To: Hlava, Cherry L
Cc: Perrin, Charlie, EMNRD
Subject: RE: Requested Tubing Size Increase SWD-225 BP America

Oops, thank you, luckily I captured this before it went out.

Cherry, the disposal permit SWD-225 says "approximately 2950 to 3600 feet" in the Mesaverde.
This well seems to be perforated 2785 to 2886 and also 2952 to 3500 feet – so it seems the interval from 2785 to 2886 was added as an afterthought.
Would you please look at this... Was there any permit amendment saying that upper interval could be added?

From: Hlava, Cherry L [mailto:Cherry.Hlava@bp.com]
Sent: Monday, March 12, 2012 3:08 PM
To: Jones, William V., EMNRD
Subject: FW: Requested Tubing Size Increase SWD-225 BP America

Will - the attached has the wrong well number. Should be GCU 307

Current Wellbore Diagram



Gallegos Canyon Unit 307
 Mesaverde - Water Injection
 API # 30-045-24248
 Sec 30 T-29-N, R-12-W
 San Juan County, New Mexico

Well History

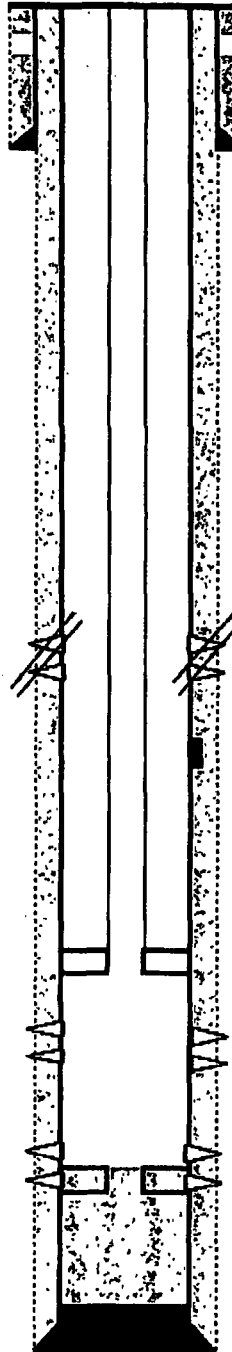
April 1980: Drilled well as a dual completion.
 9/15/81: Pulled dual strings. Set Model D pkr w/ flapper valve at 2928'. Added MV perms 2785-2830' and 2845-2886'. BD w/ 3000 gals 7.5% acid. Ran dual strings.
 5/2/2000: Inj. Pressure went from 1000 psi to 0psi @ average inj. Rate of 250 bwpd
 5/16/00: POOH w/ 2 1/16" short string. Jt. #36 had rodwear hole. TIH w/ 1.5" tbg. Tag fill at 1289'.
 5/24/2000: CO to 2677' w/ air. Pull 2 3/8" string. Jt # 39 had hole. Ran new plastic coated tubing. Set Loo-set pkr. @ 2699'. Set plug in F-Nipple. Test tubing to 2000psi w/ air. Land short-string at 1262'. Ran pump and rods.
 11/15/02: Pull tubing and inspect. Replace 1 jt. Damaged tbg. All other, good. Reset pkr @ 2695'.
 10/24/06: Flowed well to tank. TOH w/ rods. Pulled tubing. Tagged 125' fill above packer. Cleaned out and pulled packer and tubing. Pumped 26 bbls Class G to shut off PC Perfs. Drilled out cmt. Cleaned out to 2928' (hard scale). Drilled on an old Model D pkr and tried to push to bottom. Pushed to 3000'. Pumped Xylene and acid. Ran production string of 86 jts IPC tubing on packer.

Formation Tops

| | |
|----------------|------|
| Fruitland | 947 |
| Pictured Cliff | 1228 |
| Lewis | 1415 |
| Cliffhouse | 2750 |
| Menefee | 2899 |
| Point Looko | 3681 |
| Mancos | 3986 |

End of Packer tailpipe @ 3185

Ground Elevation 5415
 KB - H'



13-3/4" hole
 9 5/8", 32.3# H-40 @ 236'
 Cmt w/ 275 sx ClB w/ 2% CaCl2 and 1/4#/sk celloflakes/sk no returns, cmt from top w/ 25 sx ClB

| Tubing Details | Length |
|---|---------|
| TUBING HANGER 7.027" | 1 |
| TUBING JOINTS 2.375" 4.7 (Internally Plastic Coated) | 2660.65 |
| ON-OFF TOOL 2.375" J55 (2 3/8" X 5 1/2" PL) | 1.1 |
| PROFILE NIPPLE 2.375" | 0.93 |
| PACKER 6.413" (Baker Lockset) | 4.47 |

Pictured Cliffs Perforations

1246-1254' w/ 1 JSPF
 Squeezed off 2006

| Deviation Survey | |
|------------------|------|
| Depth | Deg |
| 241' | 0.5 |
| 1319 | 0.5 |
| 1873 | 0.5 |
| 2448 | 0.75 |
| 3,083 | 0.5 |
| 3,769 | 0.5 |
| 4,023 | 1 |

DV Tool @ 1480'

Baker Lok-Set packer @2677.7'

Mesa Verde Perforations

2785-2830
 2845-2886

Mesaverde Perforations

2952-2958 2970-2978
 3004-3014 3130-3042
 3188-3194 3228-3252
 3260-3280 3372-3386
 3480-3500
 All w/ 2 JSPF

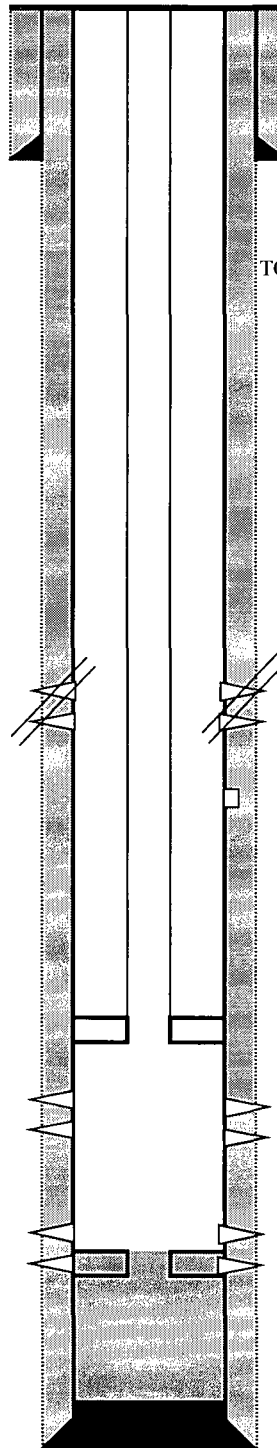
8-3/4" hole
 7", 20# & 23# K-55 @ 4013'
 Stg 1: 740 sx 50/50 poz w/ 2% gel and 1/4# Flocelesk good returns
 Stg 2: 500 sx 50/50 poz w/ 2% gel and 1/4# Flocelesk good cement returns

TD: 4023'



Gallegos Canyon Unit 307

Mesaverde - Water Injection
 API # 30-045-24248
 Sec 30 T-29-N, R-12-W
 San Juan County, New Mexico



TOC: surface

Surface Casing Data

9 5/8", 32# @ 236'
 Cmt w/ 375 sxs

TOC:

Tubing Details

TUBING HANGER 7.027"
 TUBING JOINTS 2.375" 4.7
 (Internally Plastic Coated)
 ON-OFF TOOL 2.375" J55
 (2 3/8" X 5 1/2" PL)
 PROFILE NIPPLE 2.375"
 PACKER 6.413"
 (Baker Lockset)

Length

1
 2660.65
 1.1
 0.93
 4.47

Pictured Cliffs Perforations

1246-1254'
 Squeezed off 2006

DV Tool @ 1480'

Baker Lok-Set packer @2735'

Mesa Verde Perforations

2785-2830
 2845-2886

Mesaverde Perforations

| | |
|-----------|-----------|
| 2952-2958 | 2970-2978 |
| 3004-3014 | 3130-3042 |
| 3188-3194 | 3228-3252 |
| 3260-3280 | 3272-3286 |
| 3480-3500 | |

Production Casing Data

7", 20# & 23# @ 4013'
 Stage 1: Cmt w/ 740 sxs
 Stage 2: Cmt w/ 500 sx

End of Packer tailpipe @ 3185

TD: 4023'