

APPLICATION FOR PERMIT TO MODIFY (APM)

(Replaces Sundry Notices and Reports on Well)

1. TYPE OF SUBMITTAL ☐ REQUEST ☒ SUBSEQUENT ☐ CORRECTION APPROVAL REPORT		2. MMS OPERATOR NO. 02441		3. OPERATOR NAME and ADDRESS (Submitting Office) CALPINE CORPORATION 1000 LOUISIANA, SUITE 800 HOUSTON, TEXAS 77002				
4. WELL NAME 001	5. SIDETRACK NO. 00	6. BYPASS NO. 00						
7. API WELL NO. (12 digits) 17-703-40865-00	8. START DATE (Proposed) N/A	9. PRODUCING INTERVAL CODE S03	10. WELL STATUS COM	11. WATER DEPTH (Surveyed) 60'	12. ELEVATION AT KB (Surveyed) 87'			
WELL AT TOTAL DEPTH			WELL AT SURFACE					
13. LEASE NO. G14357			16. LEASE NO. G14357					
14. AREA NAME EC			17. AREA NAME EC					
15. BLOCK NO. 88			18. BLOCK NO. 88					
19. PROPOSED OR COMPLETED WORK (Describe in Section 22) ☐ INITIAL COMPLETION ☐ PERMANENT PLUGGING ☐ MULTI-COMPLETION ☐ TEMPORARY ABANDONMENT ☐ RECOMPLETION ☐ PLUG BACK TO SIDETRACK / BYPASS ☐ MODIFY PERFORATIONS ☐ CHANGE ZONE ☒ OTHER COMMINGLE ☐ ACIDIZE WITH COIL TUBING ☐ ARTIFICIAL LIFT (INITIAL) ☐ WORKOVER ☐ CHANGE IN APPROVED PROCEDURE ☐ FINAL LOCATION PLAT ATTACHED								
20. RIG NAME OR PRIMARY UNIT (e.g., Wireline Unit, Coil Tubing unit, etc.) WIRELINE					21. RIG TYPE NA			
22. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Attach Prognosis or Summary of Completed Work, As Appropriate) COMPLETED OPERATIONS: PERFORATED THE BUL 1-9 SAND AND DOWNHOLE COMMINGLED WITH THE BUL 1-10 SAND ATTACHMENTS: ACTUAL PROCEDURE & ACTUAL WELLBORE SCHEMATIC								
23. CONTACT NAME SUZY YOUNGER / CAROL CRISSMAN		24. CONTACT TELEPHONE NO. (281) 578-3388		25. CONTACT E-MAIL ADDRESS SUZY.YOUNGER@JCCTEAM.COM				
26. AUTHORIZING OFFICIAL (Type or Print Name) BERT H. BATES, JR., C.E.P.		27. TITLE ENVIRONMENTAL, HEALTH & SAFETY MANAGER						
28. AUTHORIZING SIGNATURE <i>Bert H. Bates, Jr.</i>		29. DATE 20030312						
THIS SPACE FOR MMS USE ONLY <table border="1"> <tr> <td>APPROVED BY (Org. Sgd.) David C. Moore</td> <td>TITLE Larry D. Williamson Acting District Supervisor Lake Charles District</td> <td>DATE MAR 14 2003</td> </tr> </table>						APPROVED BY (Org. Sgd.) David C. Moore	TITLE Larry D. Williamson Acting District Supervisor Lake Charles District	DATE MAR 14 2003
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PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq.) requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling well-completion, workover, and production operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed operation. Responses are mandatory (43 U.S.C. 1334). Proprietary data are covered under 30 CFR 250.196. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB Control Number. Public reporting burden for this form is estimated to average 1 1/4 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Mail Stop 4230, Minerals Management Service, 1849 C Street, N.W., Washington, DC 20240.

CALPINE CORPORATION
LEASE OCS-G 14357, WELL NO. 001
EAST CAMERON BLOCK 99

Total Depth: 7367' MD/7049" TVD

Casing Program: 48" @ 287'
16" @ 615'
10-3/4" @ 2515'
7-5/8" @ 7362'

Perforations: 6224'-6234', 6352'-6360' (Bul 1-9/1-10 Sand)

Actual Procedure:

1. Arrived on location. Preloaded & jacked up the lift boat. SITP = 1400 psi. Closed the crown valve.
2. Installed cross-over flange, pump-in sub, and SL lubricator above the crown valve. Hooked up the pump-in sub w/ 2" piping to the 5M psi pump. Tested lubricator & piping to 250 psi low & 2500 psi high w/ sea water. Opened the crown valve. Equalized pressure above SCSSV. Opened valve. Locked same open.
3. RIH w/ GR/ junk basket to 6250'. POOH.
4. Ran & hung off standing valve assembly in X-nipple @ 6238'.
5. Filled tubing w/ sea water. Pressured up to 1800 psi. Held for 15 minutes - test good. Bled pressure off.
6. RIH w/ perforating guns & perforated the Bul 1-9 Sand from 6224' - 6234'. POOH.
7. Monitored well. Retrieved junk basket. Shut-in well.
8. Received verbal approval from Joan Lowenhaupt, MMS Region, to downhole commingle the Bul 1-9 Sand & the Bul 1-10 Sand. Turned well over to production. RDMO.
9. Lease OCS-G 14357, Well No. 001 was downhole commingled in the Bul 1-9/Bul 1-10 on 2/13/03.

OCS-G 14357 No.1
East Cameron Block 88
Offshore Louisiana

BLU/02-13-03

Current Well Sketch
02/13/03

RKB to MWL - 87'

Spud:
Completed: N/A

2 7/8" Self-Equalizing Baker
TE-5 SCSSV w/ 2 x 6' FC
@ 423'
SN 204840-5

48" x 60" caisson @ 287'

16" set @ 615'
cemented w/ 4,770 cu ft

10 3/4" 40.5 ppf @ 2,515' MD/ 2,514' TVD
cemented w/ 2,627 cu ft

2 7/8" 6.5 ppf P-110 CS
2.441" ID 2.347" Drift

2 7/8" X-nipple @ 6,082'

7 5/8" GP packer @ 6,085'

Concentric pipe perf'd 6,225'-6,230'

2 7/8" X-nipple @ 6,238' w/ standing valve set

7 5/8" GP packer @ 6,243'

concentric pipe perfed 4 spf @ 6,350'-6,355' 05/02/01

2 7/8" X-nipple @ 6,363' w/ PX plug set 05/01/01

7 5/8" GP packer @ 6,370'

7 5/8" sump packer @ 6,944' CDR

7 5/8" 26.4 ppf S/P-95 @ 7,362' MD / 7,044' TVD
cemented w/ 1,595 cu ft

BUL 1-9 perms:
6,224'-6,234' MD
5,920'-5,930' TVD
21 JSPF

BUL 1-10 perms:
6,352'-6,360' MD
6,044'-6,052' TVD
21 JSPF

Big A Lower perfs:
6,930'-6,938' MD
6,613'-6,621' TVD
21 JSPF

TD: 7,367' MD / 7,049' TVD