

Form MMS-124 - Electronic Version
Revised Application for Permit to Modify

Lease	00767	Area	EC	Block	47	Well Name	H001	ST	01	BP	00	Type	Development
Application Status				Approved									
				Operator 00105 Apache Corporation									
General Information													
API 177030029101				Approval Dt 15-FEB-2007				Approved By David Stanley					
Submitted Dt 13-FEB-2007				Well Status Cancelled				Water Depth 51					
Surface Lease 00768				Area EC				Block 48					
Approval Comments													
Correction Narrative													
Please note that Apache was not able to inject into the SS. (The LS side was squeezed by Newfield in 3/97'.) The original procedure calls to set a CIBP in the SS tbg @ 9185' w/50' of cement on top & test the plug to 1000 psi. Some S/L tools were lost in the LS trying to fish a plug @ 3455'. Therefore, Apache requests to move the intermediate plug from 5800' - 6100' to 3150' - 3450', above the lost tools/plug and allowing cement into both strings.													
Please see the attached revised proposed wellbore schematic.													
Please note verbal approval was granted by David Stanley on 02/13/2007 for the proposed revision.													
Permit Primary Type Abandonment Of Well Bore													
Permit Subtype(s)													
Permanent Abandonment													
Operation Description													
Procedural Narrative													
Please see the attached proposed PA procedure.													
Please note that PA operations for this well commenced in 03/1997 but were suspended. The long string is currently plugged; Apache is requesting to plug and abandon the SS and cut and remove all casings.													
Subsurface Safety Valve													
Type Installed N/A													
Feet below Mudline													
Shut-In Tubing Pressure (psi)													
Rig Information													
Name				Id		Type		ABS Date			Coast Guard Date		
Blowout Preventers													
Preventer				Size		Working Pressure		--- Test Pressure ---					
Wireline						5000		Low			High		
											3000		
Date Commencing Work (mm/dd/yyyy) 29-JAN-2007													
Estimated duration of the operation (days) 15													
Verbal Approval Information													
Official						Date (mm/dd/yyyy)							
David Stanley						13-FEB-2007							
Questions													
Number				Question		Response		Response Text					

Form MMS-124 - Electronic Version
Revised Application for Permit to Modify

Lease 00767	Area EC	Block 47	Well Name H001	ST 01	BP 00	Type Development
Application Status Approved			Operator 00105 Apache Corporation			

Questions

Number	Question	Response	Response Text
1	Is H2S present in the well? If yes, then comment on the inclusion of a Contingency Plan for this operation.	NO	
2	Is this proposed operation the only lease holding activity for the subject lease? If yes, then comment.	NO	
3	Will all wells in the well bay and related production equipment be shut-in when moving on to or off of an offshore platform, or from well to well on the platform? If not, please explain.	YES	
4	Are you downhole commingling two or more reservoirs?	N/A	
5	Will the completed interval be within 500 feet of a lease or unit boundary line? If yes, then comment.	N/A	
6	For permanent abandonment, will casings be cut 15 feet below the mudline? If no, then comment.	YES	

ATTACHMENTS

File Type	File Description
pdf	Proposed Wellbore Schematic
pdf	Current Wellbore Schematic
pdf	Proposed PA Procedure

CONTACTS

Name	Gary Tumlinson
Company	Apache Corporation
Phone Number	713-296-6205
E-mail Address	gary.tumlinson@apachecorp.com
Contact Description	Patty Brewer Apache Corporation 281-578-3388 patty.brewer@jccteam.com J. Connor Consulting Ron Kennedy Apache Corporation

Form MMS-124 - Electronic Version
Revised Application for Permit to Modify

Lease 00767	Area EC	Block 47	Well Name H001	ST 01	BP 00	Type Development
Application Status Approved			Operator 00105 Apache Corporation			

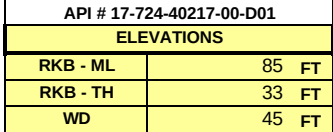
CONTACTS

ron.kennedy@superiorenergy.com

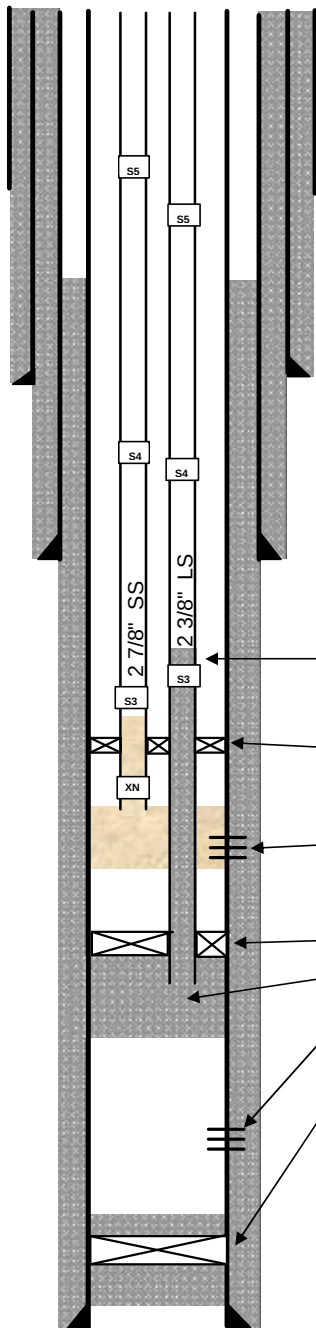
Cheryl Powell
Apache Corporation
713-296-6811
cheryl.powell@apachecorp.com

Erin Rachal
Apache Corporation
281-578-3388
erin.rachal@jccteam.com
J. Connor Consulting

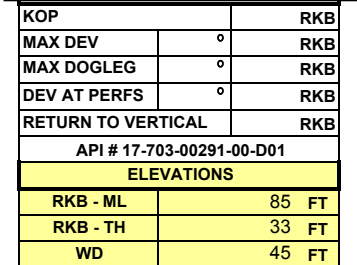
PAPERWORK REDUCTION ACT OF 1995 (PRA) STATEMENT: The PRA (44 U.S.C. 3501 et seq. Requires us to inform you that we collect this information to obtain knowledge of equipment and procedures to be used in drilling operations. MMS uses the information to evaluate and approve or disapprove the adequacy of the equipment and/or procedures to safely perform the proposed drilling 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 11/4 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.



		CURRENT	X
		PROPOSED	
WELLHEAD DATA			
TYPE			
WP	5 K		

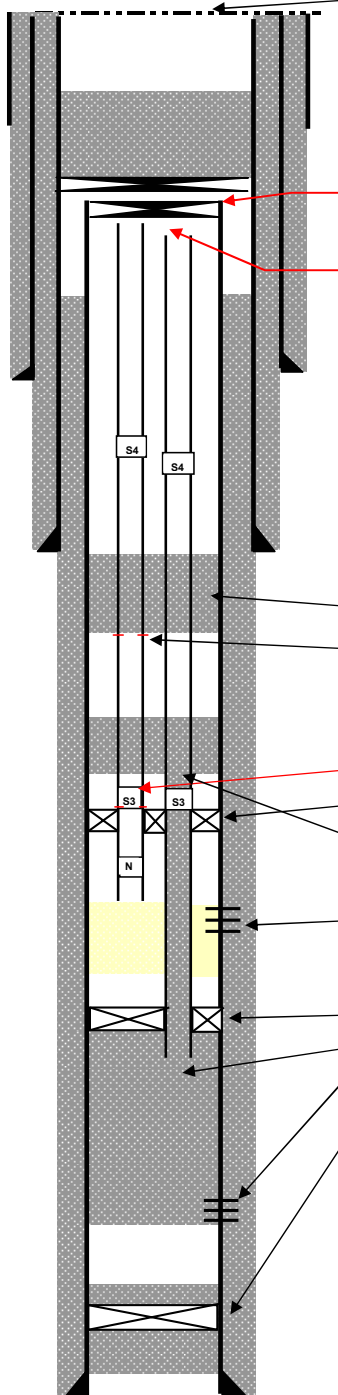


DESCRIPTION OF EQUIPMENT						ID	OD	DEPTH (RKB)	
								MD	TVD
24" Drive pipe 125.5ppf & 156ppf									
								267	
Short string		Long string							
259'	S-5 "DS" Plug	S-5 "DS" Plug		304'					
3434'	S-4	S-4		3455'					
9096	S-3	S-3		9089'					
9173'	N	S-2		9159'					
16"								800	
10 3/4"								6026	
TOC 8900' in LS									
Baker Model "D" Dual Packer								9091	
"MS" Sand perms: 9180' - 9185'								9180	
Baker Model "D" Packer								9335	
30 sx. Class H Cement plug 8900'- 9400' MD									
"NF" Gas Perfs: 9400'- 9406' MD									
SVDC Packer & Cement pkug above retainer								10365	
SAND	TVD	BHP	EMW	BHT	SITP	PLUG BACK		8292	MD
N1 Sand	4857				0				TVD
P1 Sand	5335				0	TOTAL DEPTH		8310	MD
									TVD
						FLUID LIH DATE LIH		10.5ppg Cacl 2/4/1991	
						PREPARED BY DATE		Ron Kennedy 1/23/2007	



EAST CAMERON 48H H-1 R1						
OCS - 0768						
TUBULARS	SIZE	WT	GRADE	CMT VOL	TOC	DEPTH
DRIVE	24	125.49				267
CONDUCTOR	16	63.3		650 sks	Surface	800
SURFACE	10 3/4	40.5- 51	J-55	2700sks	Surface	6026
PRODUCTION	7 5/8"	33.7	N-80	1600sks	587	10445
Subing String	2-7/8"	6.5	N-80			9091
Subing String	2-3/8"	4.7	N-80			9091

PROPOSED ☒

[illegible]

All casings cut & removed 15' or more BML

DESCRIPTION OF EQUIPMENT						ID	OD	DEPTH (RKB)	
								MD	TVD
200' cement plug from 100' - 300' BML									
19bbbls 16.2ppg/1.08cuft/sk "H"									
10 3/4" CIBP @ 300' BML								300	
Cut & Pull 7 5/8" @ 320BML									
7 5/8" CIBP @ 330' BML								315	
Cut and pull LS 1st @ 350' BML									
Cut and pull SS 2nd @ 360' BML									
		Short string		Long string			16"	800	
259'		S-5 "DS" Plug		S-5 "DS" Plug		304'			
3434'		S-4		S-4		3455'			
9096		S-3		S-3		9089'			
9173'		N		S-2		9159'			
							10 3/4"	6026	
300' cement plug from 3150' -3450'									
16bbbls 16.2ppg/1.080cuft/sk "H"									
Tubing perf'd @ 3450'									
300' cement plug from 8690' 8990'									
16 bbls 16.2ppg/1.08cuft/sk "H"									
TOC 9010' in SS									
Baker Model "A5" Dual Packer								9091	
TOC 8900' in LS									
CIBP @ 9040 RKB w/50' cement on top TOC @ 8990'								9096	
								9173	
"MS" Sand perms: 9180' - 9185' Sanded up								9180	
Baker Model "D" Packer								9335	
30 sx. Class H Cement plug 8900'- 9400' MD (2/11/97)									
"NF" Gas Perfs: 9400'- 9406' MD									
SVDC Packer & Cement pkug above retainer								10365	
SAND	TVD	BHP	EMW	BHT	SITP	PLUG BACK		9582'	MD
NF Sand abandoned MS Sand						TOTAL DEPTH		11619	TVD
						Fluid LIH		10.6ppg CaCl ₂	
						DATE LIH		2/4/1991	
						PREPARED BY		Ron Kennedy	
						DATE		2/13/2007	



**East Cameron 48H
OCS-0768 Well # H-1/1D**

API#: 17-703-00291-00-D01

Temporary Plug and Abandonment

Wellbore Information

Drive Pipe:	24", 125.49#, @ 267'
Conductor:	16", 63.3#, @ 800 ; Cemented to Surface
Surface Casing:	10 3/4", 40.5 – 51#, J55, @ 6007' ; Cemented to Surface
Production Casing:	7 5/8", 33.7# N-80 & S-95, LT&C w/ 1600 sx. @ 10,445 Calculated TOC w/ 10% washout @ 587'
Tubing:	LS: 2 3/8", 4.7#, N80 CS-CB @ 9375' TOC 8900' SS: 2 7/8", 6.5#, N80 @ 9160'
Packers:	Baker Model "FH" Dual Packer @ 9091' Baker Model "D" Packer @ 9335'
Perforations:	MS Sand gas 9180'- 9185' NF Sand (Abandoned) 9400'-9406'
X Nipple:	LS: S-5 @ 304' ; S-4 @ 3455' ; S-3 @ 9089' ; S-2 @ 9159' ID's 1.875" SS: S-5 @ 259' ; S-4 @ 3434' ; S-3 @ 9096' ; N @ 9173' ID's 2.313"
SCSSV:	No Safety Valves – DS plugs in LS @ 304' & in SS @ 259'
Status:	P&A operations were suspended in 3/97. H-1 (LS) side is already plugged.
Last well test:	No data available.

***All depths referenced from original RKB elevation

Water Depth: 45'
RKB: 40'
RKB-ML: 85'

EAST CAMERON 48H OCS-0768 Well #H-1 P&A PROCEDURE

1. Notify the MMS at least 24 hours prior to initiating operations.
2. Mob to location, conduct pre-job safety meeting, RU and establish RKB. The water depth for #H-1 well is 45'.
3. Check all tubing and casing strings for pressure and record.
4. RU pump on H-1D (SS) lines and test same to 3,000 psi. RU on each casing annulus, fill each string and test each as follows:
 - a) 16" x 24" (100 psi)
 - b) 10 3/4" x 16" (500 psi)
 - c) 7 5/8" x 10-3/4" (1000 psi)
 - d) 2 7/8" x 7 5/8" (1000 psi).
5. RU slick line unit and test lubricator to 3000 psi. Pull "DS" plug in SS @ 259' and DS plug in LS @ 304'.
6. RIH w/LIB to top of cement @ 8900' in LS. RIH w/LIB on SS to 9090' to verify tubing is open.
7. RU on LS side to test cement squeeze @ 8900' md to 1000psi. Monitor SS side and 7 5/8" annulus for leaks or pressure increases.
8. RU on SS side and establish formation injection into the MS sand from 9180' – 9185'. If formation injection cannot be established, MU CIBP for 2 7/8" tubing and set as deep as possible +-9085' and dump bail 50' cement on top of CIBP.
9. RIH and perforate tubing 9035'.POOH.
10. RU cement equipment. Test lines to 3000psi and record on chart. Establish circulation. Record rates and pressures.
11. Mix and pump 15 bbls (78 sacks) 16.2ppg Class "H" cement into SS. Displace TOC to 8735' leaving a 300' balanced plug in SS & 7-5/8" from 8735'- 9035'. WOC.
12. Test balanced plug to 1000psi and record on chart.
13. RU E/L perforate the 2-7/8" tubing and the 2-3/8" @ 6100' to spot a 300' plug from 5800' – 6100'. POOH.
14. RU cement equipment and break circulation. Mix and pump 15 bbls (78 sacks) of 16.2 ppg Class "H" cement. Displace the TOC to 5800', leaving a 300' balanced plug in both strings and the 7-5/8" annulus from 5800'-6100. WOC.
15. Test cement plug, tubing and casing to 1000 psi for 15 minutes on chart.

16. RU E/L and cut the LS 2- $\frac{3}{8}$ " tubing 1st @ 360' BML. POOH with L/S tubing.
17. RU E/L and cut the SS 2- $\frac{7}{8}$ " tubing 2nd @ 350' BML. POOH with S/S tubing.
18. RU Slick-line. Make gauge ring run in the 7- $\frac{5}{8}$ " to 330' BML. RIH and set 7- $\frac{5}{8}$ " CIBP @ 330' BML. POOH w/ slickline.

Note: As the 300' balanced plug located at 6000' md will be tested to 1000 psi, and this CIBP in the production is not required, we respectfully request a variance to forego testing it.

19. Cut and pull 7- $\frac{5}{8}$ " casing 320' BML.
20. RU E-line. Make gauge ring run in the 10- $\frac{3}{4}$ " casing to 300' BML.
21. RIH and set 10- $\frac{3}{4}$ " CIBP @ 300' BML. POOH w/ E-line.
22. RU to run tubing to spot 200' plug (100' 300' BML) in the 10- $\frac{3}{4}$ " casing to +/-300' BML. Mix and pump 19 bbls (103 sacks) of 16.2 ppg Class "H" cement. Displace the TOC to 100' BML.
23. Clean of top of plug and verify plug depth.
24. Cut and remove all casings 15' or more BML.
25. Rig down and move off of well.