Amended

Form 3160-5
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD
OCT 02 2012
RECEIVED

FORM APPROVED
OMB No 1004-0137
Expires October 31, 2014

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

5. Lease Serial No.: NMLC059001
6. If Indian, Allottee or Tribe Name:
7. If Unit of CA/Agreement, Name and/or No.: NMNM70987A
1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other
8. Well Name and No.: MCA UNIT 490
2. Name of Operator: ConocoPhillips Company
9. API Well No.: 30-025-39321
3a. Address: P. O. Box 51810 Midland TX 79710
3b. Phone No. *(include area code)*: (432)688-9174
10. Field and Pool or Exploratory Area: MALJAMAR; GRAYBURG SAN
4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*: UL B, 735' FNL & 2330' FEL, SEC 33, 17S, 32E
11. County or Parish, State: LEA NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
[X] Notice of Intent	[ ] Acidize	[ ] Deepen	[ ] Production (Start/Resume)	[ ] Water Shut-Off
	[ ] Alter Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[ ] Subsequent Report	[ ] Casing Repair	[ ] New Construction	[ ] Recomplete	[X] Other fish
	[ ] Change Plans	[X] Plug and Abandon	[ ] Temporarily Abandon	
[ ] Final Abandonment Notice	[ ] Convert to Injection	[ ] Plug Back	[ ] Water Disposal	

13 Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

NOI filed 6/5/, this is an updated procedure that includes fishing to get within 100' of top perf and the procedure to P&A wellbore.

Attached is procedure & wellbore schematic.

14 I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*: Rhonda Rogers
Title: Staff Regulatory Technician
Signature:
Date: 09/27/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
Title
Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Office
10-4-2012

Title 18 U.S.C Section 1001 and Title 43 U S C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

CURRENT SCHEMATIC

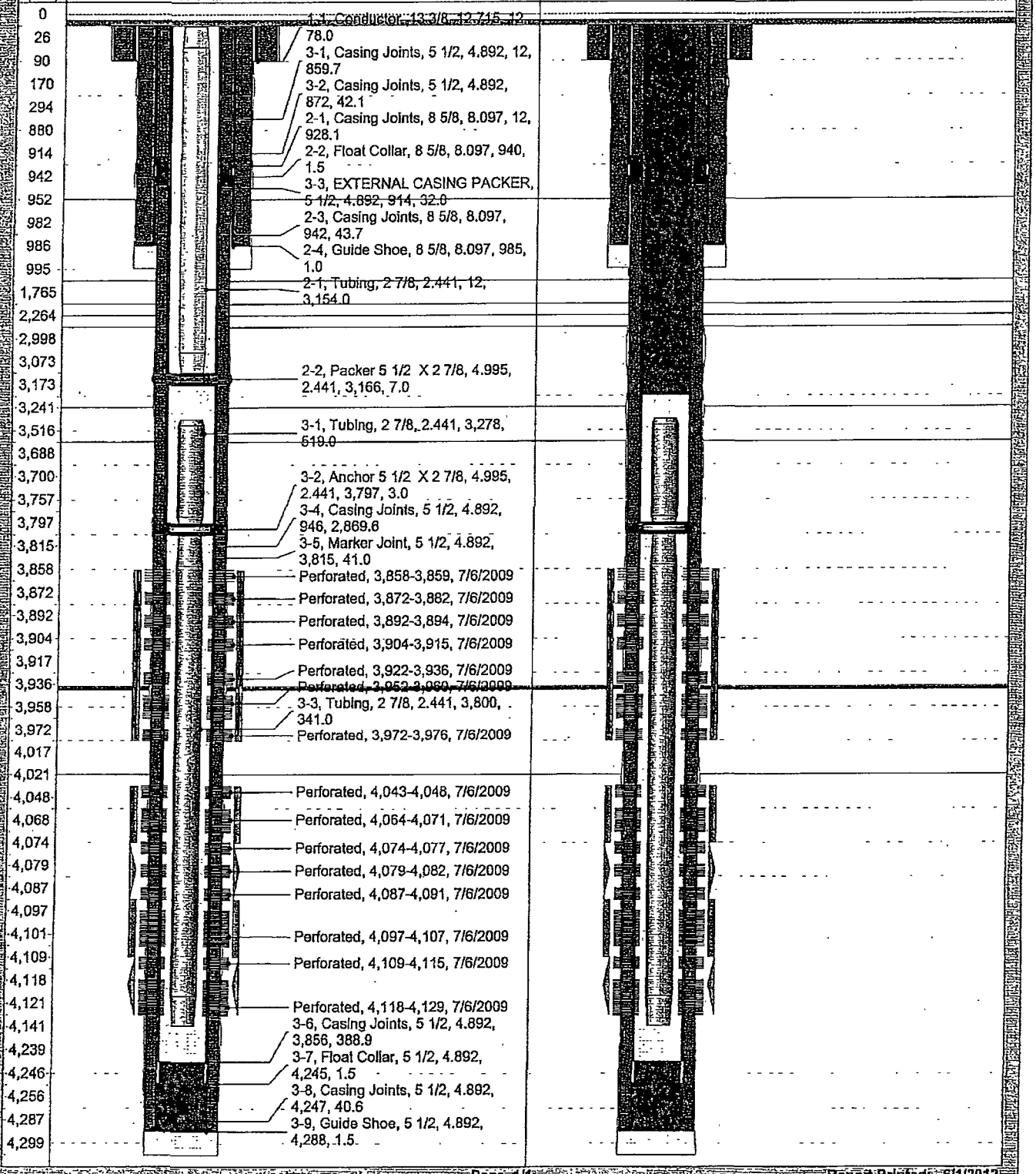
ConocoPhillips

MCA 490

District	Field Name	API / UWI	County	State/Province
PERMIAN	MALJAMAR	3002539321	LEA	NEW MEXICO

Original Spud Date	Surface Legal Location	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref
6/21/2009	Section 33, Township 17 S, Range 32 E	2,330.00	FEL	735.00	FNL

Well Config: VERTICAL - Original Hole, 6/14/2012



ConocoPhillips

Permian Basin Asset
Odessa, Texas
September 24, 2012

API #30-025-39321 (P&A)
MCA 490
Maljamar (Grayburg-San Andres) Field
Lea County, New Mexico

The workover is in response to the following correspondence from the BLM:

From: Amos, James A [mailto:jamos@blm.gov]
Sent: Monday, August 13, 2012 10:46 AM
To: Deen, Larry E.
Subject: [EXTERNAL]RE: MCA Unit 490

Larry,

The well is a fairly new well (little over 2 years). We would like to see the well cleaned out and put on production, or at the least get it plugged properly. We need to make an attempt to clean out to at least 100' above the uppermost perforation. I will work the plugging procedure with that change. If any questions, please get back to me.

thanks

The above was in response following BLM review of a proposed procedure to P&A MCA 490 from 3200 to surface.

The P&A procedure has been revised to include recovery of the remaining production tubing to within 100 ft. of the uppermost perforation @ 3872. MCA 490 has been SI since 04.22.2011. Prior to SI, production was:

Well Test History				
Date	BOPD	BWPD	BFPD	MCFPD
07/15/09	41	225	266	15
08/05/09	50	124	174	12
08/07/09	6	133	139	3
01/21/10	2	121	123	2
01/23/10	1	115	116	1
01/24/10	1	115	116	1
01/25/10	1	115	116	1
04/22/10	Shut-In			
07/16/10	TA			

MCA 490 was drilled in 2009 as part of the MCA re-development project. Project area injection was initiated June 2011.

MCA 490 is down-hole equipped w/ 2-7/8" tbg & PKR @ approximately 3055. The casing above PKR was tested @ 500#. Well is loaded w/ biocide-treated corrosion inhibited PKR brine (05.18.12). The following is a summary of remaining-in-hole below the PKR.

	Depth (ft): RKB	
Remaining-in-Hole (in-place since:07.13.09)	top	btm
2-7/8", 6.5#, J-55 tbg	3278	3727
2-7/8", 6.5# J-55 marker sub	3728	3736
2-7/8", 6.5#, J-55 tbg	3736	3797
2-7/8" x 5-1/2", 17# TAC	3797	3800
2-7/8", 6.5#, J-55 tbg	3800	4108
2-7/8", 6/5#, J-55 endura jt	4108	4140
2-7/8" SN	4140	4141

WELL CATEGORY, BOP CLASS AND EXCEPTIONS

Well Category One

BOPE Class One Hydraulic BOP recommended.

PROCEDURE

1. MI & RU well service unit (last well service 05.18.12: SI well). The following is summary of the current downhole configuration:

MCA 490 (API: 30-025-39321)			
735 FNL & 2330 FEL, 33B-17S-32E			
Elev · 3944 KB; 3932 GL (KB - GL: 12 ft.)	Depth (ft): RKB		
	top	btm	
8-5/8", 24#, J-55 @ 969	surface	986	06.22.09: Cmt w/ 570 sx (162 bbl). Circ 160 sx (50 bbl)
5-1/2", 17#, J-55 csg w/	surface	4289	06.26.09: Cmt w/ 811 sx (303 bbl). Circ 215 sx (99 bbl)
External Casing PKR: 913			
Marker Jt· 3808-3830 (06.30.09 GR/CNL/CCL)			
Marker Jt: 3830-3849 (06.30 09 GR/CNL/CCL)			
Salt Section	1160	2110	
			05.18.12:
2-7/8", 6.5#, J-55 tbg	surface	3054	Equip w/ tbg & PKR
PKR	3054	3057	Circ well w/ inhibited biocide-treated PKR brine
			Test tbg-csg @ 500#: OK. Unable to pump down tbg @ 1000#.
Remaining-in-Hole (in-place since 07.13 09)			
2-7/8", 6.5#, J-55 tbg	3278	3727	
2-7/8", 6.5# J-55 marker sub	3728	3736	
2-7/8", 6.5#, J-55 tbg	3736	3797	
2-7/8" x 5-1/2", 17# TAC	3797	3800	

2-7/8", 6.5#, J-55 tbg	3800	4108	
2-7/8", 6/5#, J-55 endura jt	4108	4140	
2-7/8" SN	4140	4141	
Perforation Intervals:			
Grayburg	3872	3882	07.06.09: Perforate @ 2 spf
	3892	3894	07 06.09: Perforate @ 2 spf
	3904	3915	07.06.09: Perforate @ 2 spf
	3922	3936	07 06.09 Perforate @ 2 spf
	3952	3960	07.06.09: Perforate @ 2 spf
	3972	3976	07 06.09: Perforate @ 2 spf
San Andres	4043	4048	07.06.09: Perforate @ 3 spf
	4064	4071	07.06.09: Perforate @ 3 spf
	4074	4077	07.06.09: Perforate @ 3 spf
	4079	4082	07 06.09: Perforate @ 3 spf
	4087	4091	07 06 09: Perforate @ 3 spf
	4097	4107	07.06.09: Perforate @ 3 spf
	4109	4115	07 06.09: Perforate @ 3 spf
	4118	4129	07.06.09: Perforate @ 3 spf
PBD	4236		06.30.09. Logger PBD
TD		4300	06.25.09: TD 7-7/8" hole

2. Note & record SICP & SITP. ND well. NU BOP.

3. Release PKR @ 3054. POOH & LD 2-7/8", 6.5#, J-55 tbg & PKR.

4. PU & RIH w/ 4-3/4" OD concave dress-off mill w/ 2 ft SOD extension, 6: 3-1/2" DC on 2-7/8", 6.5#, N-80 tbg to top of downhole tbg @ approximately 3278.

   Dress-off tbg: 3278-3285 (tbg collar @ approximately 3290; 05.10.12: Rec tbg collar @ approximately 3230).

   Note milling rate & composition of returns (metal, scale, cement, formation)

   NOTE: During previous recovery efforts, reported rod box wear & "pitted" tbg may suggest excessive tbg metal loss. Previous OS efforts resulted in limited tbg recovery consisting essentially of full joints suggesting tbg collar metal loss....tbg repeatedly parted @ collars at 8,000-10,000# over string-weight.

)7.07 10	Un-seat pump. Rods possibly parted. Well flowing approximately 2 BPM. POOH & LD rods (rod boxes worn down...."could almost see pin")
)7.08.10	Finish POOH & LD rods. Open csg & blow csg down. ND well NU BOP. Attempt to release TAC @ 3800. Tbg parted. POOH w/ 20 stands tbg
	(tbg collars described as "pitted"). RIH w/ tbg. POOH & LD tbg. Rec 101 jts (3101 ft.)

)5.09 12	Change out 3-21/32" grapple in OS to 2-7/8". RIH w/ BHA Tag @ 3109 Engage grapple. Pull 8000# over string wt. Attempt to release TAC.
	OS came free. SION.

05.10.12	SIP: 250#. Bleed prs down. POOH w/ tbg & BHA. Rec 1 jt 2-7/8" tbg (29.75 ft.). tbg jt was split on both ends and pitted entire length
	RIH w/ 4-11/16" OS w/ 2.5 ft. extension, 3-3/4" BS, 3-3/4" jars, 6: 3-1/2" DC & 2-7/8' tbg. Tag @ 3139. Engage OS. Work tbg. OS came free
	POOH w/ BHA. Rec 3 jts 2-7/8" tbg. RIH w/ BHA. Tag @ 3230. Engage OS. Pull 10,000#. OS came free. POOH. Rec 2-7/8" tbg collar.
	RIH w/ BHA to 2000. SION.
)5 11.12	RIH w/ BHA to 3000. Circ well 10# biocide-treated brine. RIH w/ BHA. Tag @ 3230. Attempt to engage OS. OS came free. POOH w/ BHA.
	Rec 20 ft piece of 2-7/8" tbg SIOWE

POOH w/ tbg & BHA.

5. RIH w/ 4-11/16" OS w/ grapple for 2-7/8" on 2-7/8" tbg. Engage OS (limit upstrain to 5000# over string weight).

   RIH down tbg w/ 1" sinker-bar on sand-line to TAC @ 3800.

   Chem-cut tbg approximately 5 ft. above TAC @ 3800.

   Note: May want to forego free-point. For approximately 515 ft of 2-7/8", 6.5# production tbg (3285-3800 TAC) & 5000# pull, surface stretch is approximately 0.5".

   POOH w/ tbg & OS BHA. Estimated recovered tbg weight (515 ft. @ 6.5#/ft):

   : 3350# air wt.
   : 2900# buoyant wt

6. RIH w/ 4-11/16" OS w/ grapple for 2-7/8", 3-3/4" BS, 3-3/4" jars, 6: 3-1/2" DC (1.5" ID: 27#/ft.; 1.25" ID: 29#/ft.) on 2-7/8" tbg.

   Engage chem-cut tbg @ approximately 3795. Attempt to shear TAC.

   If able to shear TAC: POOH w/ workstring & recovered tbg.

   If unable to shear TAC: Release OS & POOH

NOTE: Chemical-cut @ 3795 is within 100 ft. of uppermost perforation @ 3872. There is option to P&A well from 3795.

P&A:

7. RU SLB wire line. Install lubricator. RIH w/ (correlate to GR/CNL/CCL of 06.30.09):

   CBL: Log from PBD @ 4236 (perforation interval: 3872-4129) to surface.

RD SLB.

Note:

Elev.: 3944 KB, 3932 GL (KB - GL. 12 ft.)	Depth (ft): RKB		
	top	btm	
8-5/8", 24#, J-55 @ 969	surface	986	06.22.09: Cmt w/ 570 sx (162 bbl). Circ 160 sx (50 bbl)

5-1/2", 17#, J-55 csg w/	surface	4289	06.26.09: Cmt w/ 811 sx (303 bbl). Circ 215 sx (99 bbl)
5-1/2" x 8-5/8" External Casing PKR: 913			
Marker Jt: 3808-3830 (06.30.09 GR/CNL/CCL)			
Marker Jt: 3830-3849 (06.30.09 GR/CNL/CCL)			

If CBL indicates absence of cement across Salt Section (TOS: 1160; BOS: 2110), 5-1/2" csg will be perforated approximately 50 ft. below BOS & TOS and 25 sx (5.9 bbl) will be placed behind casing (equivalent to 190 ft. cmt column in 5-1/2" x 7-7/8" drill-hole annulus).

8. RIH w/ 2-7/8" tbg open-ended to either:

4180 (50 ft. below lowermost perforation @ 4129)
3795 (top of chem.-cut tbg)

Circulate well w/ minimum 9 ppg plugging mud. Estimated well capacity (w/ tbg):

EOT @ 4180: 88 bbl
EOT @ 3795: 80 bbl

Plug-1: Completion Interval
Mix & pump 50 sx (11.75 bbl) Class C cement.
Displace cmt w/ 9# mud to within 3.25 bbl of EOT.

EOT @ 4180: Displace cmt w/ 21.0 bbl
EOT @ 3795: Displace cmt w/ 18.7 bbl

POOH w/ 10 stands (EOT: 3195-3580).
Reverse tbg w/ 25 bbl 9# mud (tbg cap.: 18.5-20.7 bbl).
SD 4 hrs.
RIH & tag cmt. Cmt column: 3289-3795 or 3674-4180; uppermost perforation: 3872)

Plug-2: Base of Salt
If CBL indicates presence of cement across interval: 2010-2210 (BOS: 2110):
Pull tbg to 2210
Mix & pump 25 sx (5.9 bbl) Class C cement
Displace cmt w/ 11.1 bbl 9# mud
POOH w/ 6 stands (EOT: 1850).
Reverse tbg w/ 15 bbl 9# mud (tbg cap.: 10.7 bbl)
SD 4 hrs.
RIH & tag cmt. Cmt column: 1957-2210

If CBL indicates absence of cement across interval 2010-2210 (BOS: 2110):
POOH w/ tbg.
Perforate 5-1/2", 17# csg @ 4 spf: 2160 (50 ft below BOS @ 2110).
RIH w/ tbg & PKR w/ 1 jt tail-pipe.

Set PKR @ 1860 w/ EOT @ 1890 (collars: 1834 & 1874)
Open valve on 5-1/2" x 8-5/8" annulus
Obtain pump-in rate w/ 10 bbl fresh water.
Mix & pump 50 sx (11.75 bbl)
Displace cmt w/ 13 bbl 9# mud (2 bbl in excess of tbg capacity to EOT).
SD 4 hrs.
RIH & tag cmt. Cmt column: 1978-2160 (181 ft: 4.2 bbl...17.9 sx) above perfs w/ 7.54 bbl (32.1 sx) placed behind-pipe.
POOH.

Plug-3: Top of Salt

If CBL indicates presence of cement across interval: 1060-1260 (TOS: 1160):

RIH w/ 2-7/8" tbg open-ended to 1260
Mix & pump 25 sx (5.9 bbl) Class C cement
Displace cmt w/ 5.7 bbl 9# mud
POOH w/ 6 stands (EOT: 900).
Reverse tbg w/ 10 bbl 9# mud (tbg cap.: 5.2 bbl)
SD 4 hrs.
RIH & tag cmt. Cmt column: 1007-1260.

If CBL indicates absence of cement across interval: 1060-1260 (TOS: 1160):

Perforate 5-1/2", 17# csg @ 4 spf:1210 (50 ft below TOS @ 1160).
RIH w/ tbg & PKR w/ 1 jt tail-pipe.
Set PKR @ 910 w/ EOT @ 940 (collars: 905 & 945 est.)
Open valve on 5-1/2" x 8-5/8" annulus
Obtain pump-in rate w/ 10 bbl fresh water.
Mix & pump 50 sx (11.75 bbl)
Displace cmt w/ 7.5 bbl 9# mud (2 bbl in excess of tbg capacity to EOT).
SD 4 hrs.
RIH & tag cmt. Est TOC: 1029 ft. Cmt column: 1029-1210
(181 ft.: 4.2 bbl...17.9 sx) above perfs w/ 7.54 bbls (32.1 sx) placed behind-pipe.
POOH.

Plug-4: 8-5/8" Casing Shoe

If CBL indicates presence of cement across interval: 886-1086 (Csg Shoe: 986)

RIH w/ 2-7/8" tbg open-ended. Tag TOC @ approximately 1000-1050
Mix & pump 25 sx (5.9 bbl) Class C cement
Displace cmt w/ 5.4 bbl 9# mud
POOH w/ 6 stands (EOT: 850).
Reverse tbg w/ 10 bbl 9# mud (tbg cap.. 4.9 bbl)
SD 4 hrs.
RIH & tag cmt. Est TOC: 750-800. Cmt column: 250 ft.

If CBL indicates absence of cement across interval: 886-1086 (Csg Shoe: 986)

Perforate 5-1/2", 17# csg @ 4 spf:1000

5-1/2" x 8-5/8" ECP:	913
8-5/8,24# csg shoe:	986
5-1/2" PBD:	1007-1029 (Plug-3)

RIH w/ tbg & PKR w/ 1 jt tail-pipe.
Set PKR @ 700 w/ EOT @ 730
Open valve on 5-1/2" x 8-5/8" annulus

Obtain pump-in rate w/ 10 bbl fresh water.
Mix & pump 25 sx (5.9 bbl)
Displace cmt w/ 7.6 bbl 9# mud
(3.4 bbl in excess of tbg capacity to EOT).
SD 4 hrs.
RIH & tag cmt. Est cmt column. 875-1000
(125 ft.: 2.9 bbl... 12.4 sx) above perfs w/ 3.0 bbls (12.6 sx) placed behind-pipe.
POOH.

Plug-5: Surface Plug

RIH w/ 2-7/8" tbg open-ended to 100.
Mix & pump 10 sx (2.4 bbl) Class C cement (well cap. w/ tbg: 2.1 bbl)
POOH w/ tbg. Est TOC: 10 FFS.
Top-off 5-1/2" csg to surface w/ cmt (0.23 bbl... approx 1 sk)

NOTE:

BLM to be notified minimum of 4 hours prior to cut-off of casing.

Wellhead cut-off to commence within 10 calendar days of final plug.

All casing to be cut-off at deeper of: base of cellar or 3 ft. below final restored ground level.

Well to be capped w/ 4" OD x 10 ft. pipe, 4 ft. above ground & embedded in cement OR

If well is within Prairie Chicken habitat area, marker will consist of an 8" x 8" steel plate positioned 2" above ground level

P&A marker to be inscribed w/ the following:

Well (name & number):	MCA 490
Operator:	ConocoPhillips
Location:	735 FNL & 2330 FEL, 33B-17S-32E
Lease Serial & API Number:	NMLC-059001 API: 30-025-39321

	Internal Yield Prs: psi				Capacity
	100%	80%	ID: in.	Drift ID: in	bbl/ ft
2-7/8", 6.5#, J-55	7260	5808	2.441	2.347	0 00579

5-1/2", 17#, J-55	5320	4256	4.892	4.767	0.02324
2-7/8" x 5-1/2", 17#					0.0152

Well Test History				
Date	BOPD	BWPD	BFPD	MCFPD
07/15/09	41	225	266	15
08/05/09	50	124	174	12
08/07/09	6	133	139	3
01/21/10	2	121	123	2
01/23/10	1	115	116	1
01/24/10	1	115	116	1
01/25/10	1	115	116	1
04/22/10	Shut-In			
07/16/10	TA			

PROPOSED			
MCA 490 (API. 30-025-39321)			
735 FNL & 2330 FEL, 33B-17S-32E			
Elev.: 3944 KB; 3932 GL (KB - GL 12 ft.)	Depth (ft) RKB		
	top	btm	
8-5/8", 24#, J-55 @ 969	surface	986	06.22.09 Cmt w/ 570 sx (162 bbl) Circ 160 sx (50 bbl)
5-1/2", 17#, J-55 csg w/	surface	4289	06.26 09 Cmt w/ 811 sx (303 bbl). Circ 215 sx (99 bbl)
5-1/2" x 8-5/8" External Casing PKR - 913			
Marker Jt: 3808-3830 (06.30.09 GR/CNL/CCL)			
Marker Jt: 3830-3849 (06.30.09 GR/CNL/CCL)			
Proposed Cement Plug: 5-1/2" Casing (10 sx)	surface	100	
Proposed Cement Plug: 5-1/2" Casing (25 sx)	750	1000	
Proposed Cement Plug: 5-1/2" Casing (25 sx)	1007	1260	
Salt Section	1160	2110	
Proposed Cement Plug: 5-1/2" Casing (25 sx)	1957	2210	
Proposed Cement Plug: 5-1/2" Casing (50 sx)	3289	3795	
Remaining-in-Hole (in-place since:07.13.09)			
2-7/8", 6.5#, J-55 tbg	3795	3797	
2-7/8" x 5-1/2", 17# TAC	3797	3800	

2-7/8", 6.5#, J-55 tbg	3800	4108	
2-7/8", 6/5#, J-55 endura jt	4108	4140	
2-7/8" SN	4140	4141	
Perforation Intervals:			
Grayburg	3872	3882	07 06 09: Perforate @ 2 spf
	3892	3894	07.06 09: Perforate @ 2 spf
	3904	3915	07 06 09: Perforate @ 2 spf
	3922	3936	07.06.09: Perforate @ 2 spf
	3952	3960	07.06.09: Perforate @ 2 spf
	3972	3976	07.06.09 Perforate @ 2 spf
San Andres	4043	4048	07.06 09 Perforate @ 3 spf
	4064	4071	07 06.09: Perforate @ 3 spf
	4074	4077	07.06.09. Perforate @ 3 spf
	4079	4082	07 06.09: Perforate @ 3 spf
	4087	4091	07 06 09: Perforate @ 3 spf
	4097	4107	07.06.09: Perforate @ 3 spf
	4109	4115	07.06.09: Perforate @ 3 spf
	4118	4129	07 06.09: Perforate @ 3 spf
PBD	4236		06.30.09: Logger PBD
TD		4300	06.25.09: TD 7-7/8" hole

	MCA 490 (API: 30-025-39321)
	735 FNL & 2330 FEL, 33B-17S-32E
	Elev.: 3944 KB; 3932 GL (KB - GL: 12 ft)
06.21 09	Spud 12-1/4" hole.
06.22.09	Drl 12-1/4" hole to 995.
	8-5/8", 24#, J-55 @ 986. Cmt w/ 570 sx (162 bbl). Circ 160 sx (50 bbl) to surface
06.23.09	RIH w/ 7-7/8 bit Drl out csg shoe @ 986 Drl 7-7/8" hole to 995 w/ 10# brine..
	Run FIT. Test @ 250#. EMW: 14.9#.
	Drl 7-7/8" hole. 995-2025 @ 95.8 FPH
06.24.09	Drl 7-7/8" hole: 2025-2175 @ 60.0 FPH.
	Drl 7-7/8" hole: 2175-2310 @ 33 8 FPH.
	Drl 7-7/8" hole: 2310-2447 @ 54.8 FPH.
	Drl 7-7/8" hole: 2447-2991 @ 55.8 FPH.
	Drl 7-7/8" hole: 2991-3230 @ 56.2 FPH
06.25.09	Drl 7-7/8" hole: 3230-3490 @ 49.5 FPH.
	Drl 7-7/8" hole 3490-3990 @ 76.9 FPH.
	Drl 7-7/8" hole: 3990-4300 @ 72.9 FPH. Wtr flow @ 4150 ARO 6 BPH (144 BPD)
	TD 4300
	5-1/2", 17#, J-55 csg @ 4289 w/
	ECP 913
	Marker Jt: 3808-3830 & 3830-3849 (06.30.09:Spectral GR/CNL/CCL)

	Wtr flow ARO 8 BPH (192 BPD)
06.26.09	Cmt 5-1/2", 17#, J-55 csg @ 4289 w/ 811 sx (303 bbl). Circ 215 sx (99 bbl) to surface
	Initial Completion:
06.30.09	RU loggers. Log from PBD @ 4236 to surface w/ Spectral GR/CNL/CCL
07.06.09	Perforate Grayburg @ 2 spf: 3872-3882, 3892-3894, 3904-3915, 3922-3936, 3952-3960, 3972-3976
	Perforate San Andres @ 3 spf: 4043-4048, 4064-4071, 4074-4077, 4079-4082, 4087-4091, 4097-4107, 4109-4115, 4118-4129
	RIH w/ 2-78" tbg w/ RBP & PKR. Set RBP @ 4135. Circ well biocide-treated 10# brine.
07.07.09	Set PKR @ 4006.
	Acd San Andres: 4043-4129 (-99/-185) w/ 4900 gal 20% HCl:
	Displace tbg to PKR by-pass w/ 24 bbl (1000 gal) 20% HCl. Close by-pass. Breakdown @ 2835#. Pump 93 bbl (3900 gal) 20% HCl.
	Flush w/ 44 bbl biocide-treated brine. Reported "no communication" w/ Grayburg perforation interval: 3872-3976
	P(avg): 2800# AIR: 5 BPM. ISIP: Not reported
	Re-set RBP @ 4027. Test RBP @ 4600#. Re-set PKR @ 3818.
	Acd Grayburg: 3872-3976 (+72/-32) w/ 2500 gal 15% HCl:
	Displace tbg to PKR by-pass w/ 24 bbl (1000 gal) 15% HCl Close by-pass Breakdown @ 2983#. Pump 36 bbl (1500 gal) 15% HCl.
	Flush w/ 42 bbl biocide-treated brine.
	P(avg): 2950# AIR: 5 BPM. ISIP: Not reported
	Release PKR & POOH w/ tbg & PKR. NU frac valve.
07 09.09	Frac Grayburg: 3872-3976 (+72/-32) down 5-1/2", 17#, J-5 csg:
	Run FET. Breakdown @ 2393# 15 1 BPM @ 2736#; 19.9 BPM @ 2777#; 14.5 BPM @ 2639#; 7.1 BPM @ 2499#.
	ISIP: 2353# (grad.: 1.04 psi/ft). SICP(5 min): 2150#.
	Frac w/: 34,898 gal & 66,956# 16/30 w/ 1 0-1 5% PropNet. Flush w/ biocide-treated fresh water
	P(max): 3453# P(avg) 3111#. AIR: 28.5 BPM ISIP: 2621# (grad.. 1.11 psi/ft). SICP(5 min): 2413#
	Open well. Flow back 5 hrs. Rec 500 BLW (ARO: 1.7 BPM)
07.10.09	Kill well w/ 70 bbl 10# brine. RIH w/ 2-7/8" tbg & RBP retrieving head. Tag @ reported depth 4097 (07.07.09: RBP set @ 4027????).
	Clean-out to RBP. Latch onto RBP. Kill well w/ 60 bbl 10# brine. POOH to 2500. Well trying to flow. SIOWE.
07.13.09	SIP. 1000#. Pump 15 bbl kill mud (15 ppg??) down tbg & 50 bbl kill mud down csg. Well dead. POOH w/ tbg & RBP.
	RIH w/ 2-7/8" production tbg w/ SN, endura jt & TAC. ND BOP NU well
07 14.09	RIH w/ rods & pump Circ well w/ 120 bbl 10# brine to displace kill mud. Seat pump Reported SIP. 700#. RD.
	Workover: Down Hole Failure
07.07 10	Un-seat pump Rods possibly parted. Well flowing approximately 2 BPM. POOH & LD rods (rod boxes worn down.. ."could almost see pin"
07 08 10	Finish POOH & LD rods. Open csg & blow csg down. ND well NU BOP Attempt to release TAC @ 3800. Tbg parted. POOH w/ 20 stands tbg
	(tbg collars described as "pitted"). RIH w/ tbg. POOH & LD tbg. Rec 101 jts (3101 ft.)
07 09.10	RU pump-truck. Pumped 105 bbl inhibited biocide-treated PKR fluid Attempt to RIH w/ WL-set RBP. Lost plug down-hole.
07.12 10	SD. No rig crew
07.13.10	SD. Rig crew attending Safety Leadership class
07.14.10	RIH w/ 4-5/8" OS w/ 3-1/4" grapple, 2-7/8" drain-sub, BS, 3-3/4" jars, 4: 3-1/2" DC, 3-3/4" accelerator sub on 2-7/8" tbg.
	Tag @ 3082 (Note: recovered tbg to 3101 per report of 07.08.10) Set down 6 pts PU & gained 2 pts. POOH w/ 14 pts drag
	Work pipe down & up w/ 2 pts drag. Pipe quit pulling wet @ 2400. POOH w/ WS No recovery. RIH w/ same BHA Tag @ 3075
	Latch onto fish w/ OS. POOH w/ 10 stands & lost fish. RIH & latch onto fish. POOH w/ 5 stands & lost fish. POOH. SION.
07.15.10	RIH w/ BHA w/ 1-3/8" grapple. Tag @ 3073. Work to 3082. POOH w/ BHA. No recovery All tools full of parrafin
	RIH w BHA w/ 3-1/4" grapple to 3073. RU pump-truck. Wash down to 3100. Latch onto fish. Trip jars twice & came free.
	POOH w/ BHA. Recovered setting tool for RBP. RIH w/ tbg & retrieving head. Wash down to RBP. Latch onto RBP. POOH w/ tbg & RBP.
07.16.10	RIH w/ tbg & RBP to 3000. Set RBP @ 3000. Test csg @ 500# for 30 min. Test OK. Circ well w/ inhibited biocide-treated PKR brine.
	POOH & LD tbg. ND BOP. NU well. Well TA.

	NOTE. No record of recovering 2-7/8 tbg below 3100. Possible fish-in-hole
	2-7/8", 6.5#, J-55 tbg: 3100-3727
	2-7/8", 6.5# J-55 marker sub 3728-3736
	2-7/8", 6.5#, J-55 tbg. 3736-3797
	2-7/8" x 5-1/2", 17# TAC: 3797-3800
	2-7/8", 6.5#, J-55 tbg. 3800-4108
	2-7/8", 6/5#, J-55 endura jt : 4108-4140
	2-7/8" SN 4140-4141
	Workover Down Hole Recovery Effort (2nd attempt)
05.08.12	MI & RU well service. MI tbg-pick-up machine.
05.09.12	MI pipe racks & 2-7/8" workstring PU tbg & RIH to RBP @ 3000. POOH w/ tbg & RBP.
	RIH w/ 4-11/16" OS w/ 3-21/32" grapple, 3-3/4" bumper sub, 3-3/4" jars, 6: 3-1/2" DC on 2-7/8" tbg Tag @ 3109 Unable to engage grapple. POOH.
05.09.12	Change out 3-21/32" grapple grapple in OS to 2-7/8" RIH w/ BHA. Tag @ 3109. Engage grapple. Pull 8000# over string wt. Attempt to release TAC.
	OS came free. SION.
05 10 12	SIP: 250# Bleed prs down.. POOH w/ tbg & BHA. Rec 1 jt 2-7/8" tbg (29.75 ft.).....tbg jt was split on both ends and pitted entire length
	RIH w/ 4-11/16" OS w/ 2.5 ft. extension, 3-3/4" BS, 3-3/4" jars, 6: 3-1/2" DC & 2-7/8' tbg. Tag @ 3139. Engage OS. Work tbg. OS came free.
	POOH w/ BHA. Rec 3 jts 2-7/8" tbg. RIH w/ BHA. Tag @ 3230. Engage OS. Pull 10;000# .OS came free POOH. Rec 2-7/8" tbg collar.
	RIH w/ BHA to 2000. SION.
05.11 12	RIH w/ BHA to 3000. Circ well 10# biocide-treated brine. RIH w/ BHA. Tag @ 3230. Attempt to engage OS. OS came free. POOH w/ BHA.
	Rec 20 ft piece of 2-7/8" tbg. SIOWE.
05.14.12	NU hydril on BOP. Wait on bad weather to pass.
	PU & RIH w/ 4-11/16" OS w/ 3-21/32" grapple, XO, 1 jt 4-1/2" WP, top-sub, 3-3/4" BS, 3-3/4" jars, 6: 3-1/2" DC & 2-7/8" tbg SD (bad weather)
05.15.12	RIH w/ BHA. Tag @ 3250 Work OS to 3262 Unable to work pass 3262. Unable to engage OS POOH w/ BHA. No recovery.
	PU & RIH w/ SOD shoe, 3 jts 4-1/2" WP, top-sub, 6: 3-1/2" DC. Tag @ 3250. Wash over 3250-3271 in 4.5 hrs. Pull uphole to 3250. SION
05 16.12	SIP 0# RIH to 3271. Cutting on "junk": 3271-3275 in 5 hrs (0.8 FPH). Unable to get below 3275. POOH w/ BHA. Shoe worn out.
	Rec 3 ft of "solid metal" in shoe. RIH w/ new 4-3/4" shoe, 3 jts: 4-1/2" WP, 3-3/4" jars & 6: 3-1/2" DC on tbg to 3275.
	Cut 3275-3275.5 in 2.5 hrs (0.5 ft ARO 0.2 FPH). Circ well. SION
05.17 12	Resume cutting: 3275.5-3277.5 in 3.5 hrs (2 ft ARO. 0.6 FPH). Shoe worn out. POOH w/ BHA. Rec 1 ft. "twisted up tbg" in shoe
	LD WP & DC SION.
05.18 12	RIH w/ tbg & PKR. Set PKR @ 3054 Prs-test tbg-csg annulus @ 500#. Test OK. Unable to pump down tbg @ 1000#.
	Circ PKR fluid. ND BOPE NU well. RD & MO service unit.