

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Hobbs  
HOBBS OCD

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

**SUNDRY NOTICES AND REPORTS ON WELLS JAN 28 2013**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on page 2.		5. Lease Serial No. NMLC031620A
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator ConocoPhillips Company		7. If Unit of CA/Agreement, Name and/or No.
3a. Address P. O. Box 51810 Midland TX 79710		8. Well Name and No. SEMU 156
3b. Phone No. (include area code) (432) 688-9174		9. API Well No. 30-025-35537
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) UL C, 660' FNL & 1650' FWL, Sec 25, 20S, 37E		10. Field and Pool or Exploratory Area Skaggs, Grayburg
		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			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recompleat 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 recompleat 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.)

ConocoPhillips would like to recompleat the Skaggs; Grayburg (57380) pool. We will plug back the Tubb-Drinkard by setting a CIBP @ 6430', 66' above the perfs & spot 35' of cmt (if dump bailer is used, tag cmt cap afterwards). We are going to perf the Grayburg @ 3817'-3981'.

Attached is the procedure and the C-102.

**SUBJECT TO LIKE  
APPROVAL BY STATE**

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

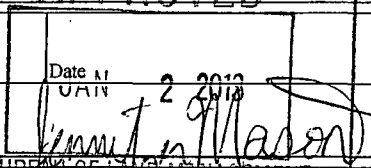
14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Rhonda Rogers	Title Staff Regulatory Technician
Signature 	Date 12/03/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date 12/03/2012
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	

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.

**APPROVED**



BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

DISTRICT I  
1825 N. French Dr., Hobbs, NM 88240

DISTRICT II  
811 South First, Artesia, NM 88210 28-2013

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

HOBBS OCD

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102  
Revised March 17, 1999

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

RECEIVED OIL CONSERVATION DIVISION  
2040 South Pacheco

Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-35537	Pool Code 57380	Pool Name Skaggs, Grayburg
Property Code 013492	Property Name SEMU	Well Number 156
GRID No. 217817	Operator Name ConocoPhillips Company	Elevation 3522'

Surface Location

UL or lot No. C	Section 25	Township 20 S	Range 37 E	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 1650	East/West line WEST	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<b>OPERATOR CERTIFICATION</b>  I hereby certify the this information contained herein is true and complete to the best of my knowledge and belief.  Signature: Rhonda Rogers Printed Name: Rhonda Rogers Title: Staff Registered Tech. Date: 12/3/12
	<b>SURVEYOR CERTIFICATION</b>  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.  Date Surveyed: January 31, 2001 Signature & Seal: [Signature] Professional Surveyor: [Seal] W.O. No. 1087 Certified: [Signature] Jones 7977
	BASIN SURVEYS

EG 1-29-2013



SEMU 156  
 API#: 30-025-35537  
 Hardy North (Tubb-Drinkard) Field  
Lea County, New Mexico

Currently a Blinberry/Tubb producer with low production. It is being review for a recompletion to the Grayburg. The Grayburg formation became a subject of interest after the initial success of the SEMU #151 Grayburg recompletion.

### WELL CATEGORY, BOP CLASS AND EXCEPTIONS

#### Well Category One:

H2S: 0 ppm.  
 Well Rate:

<u>H2S</u>	<u>ROE- ft.</u>
100 ppm	0
500 ppm	0

**BOPE Class One:** Hydraulic BOP recommended per Projects Group.

### PROCEDURE

1. Prior to service unit MI & RU, dump 20 bbl xylene down 2-7/8" x 5-1/2" annulus. Pump back xylene (contact time: 7.2 hrs at current surface displacement of 79 BPD). Test anchors. Last well service 2.05.2009.
2. Spot 6 clean 500 bbl frac tanks. Load tanks w/ fresh water prior to frac date. Water to be biocide-treated by Service Company.
3. MI & RU service unit. Un-seat pump. POOH w/ rods & pump. ND well. NU hydri1 1 X 7-1/16" 5K Blowout Preventer (Double BOP: blind ram & pipe ram) and environmental tray. Scan 2-7/8", 6.5# J-55 production tbg out of hole.
4. The following is a summary of the current well configuration:

Spud Date: 6.23.01	Rls Date: 7.12.01	Depth RKB		Elev.: 3533 KB; 3522 GL (KB - GL: 11 ft.)
		top	btm	
8-5/8", 8.097, 24#, J-55		0	1500	Lead: 465 Sxs, Class C @ 12.4 ppg
Hole Size: 12.25, Shoe Jt length: 40Ft				Tail: 200 sxs, Class C @ 14.8 ppg
				TOC @ Surface
5-1/2", 17# J55, Hole: 7 7/8"		0	3898.4	1 <sup>st</sup> Stage : Lead: 565 sxs, class C @ 11.85 ppg Tail: 425 sxs, Class C @ 13.6 ppg
5-1/2", 17# J55, DV tool		3898.4	3900.5	
5-1/2", 17# J55		3900.5	6872.2	
5-1/2", 17# K55, Marker Joint		6872.2	6891	
5-1/2", 17# J55		6891	7973	
5-1/2", 17# K55, Float Collar		7973	7974.5	

5-1/2", 17# J55	7974.5	8057.5	
5-1/2", 17# J55, Float shoe	8057.5	8058.7	
Mud weight : 10.1 ppg @ TD ( 8059')			
Bottom Up:			
<b>Tubb Perforated Intervals</b>	6486	6552	09.26.01: Perforate @ 2 spf
Gun: 4" HSC csg guns, 60 deg, .41" diam, 24" Penetration			

Tops	MD
Tansil	2560
Yates	2704
Seven Rivers	2954
Queen	3520
Penrose	3646
Grayburg	3780
San Andres	4012
Glorieta	5282
Blinbry	5896
Tubb	6400
Drinkard	6724
Abo	7026

5. PU & RIH w/ 2-7/8", 6.5#, J55 work string tbg w/ 4-3/4" bit & 5-1/2", 17# csg scraper to 7920. Circulate bottoms up. Well Capacity w tubing 166 bbl. POOH w 2 7/8", 6.5 #, J55 WS and bit.
6. PU CIBP & packer. RIH w/ tbg, packer & CIBP-1. Set CIBP-1 @ 6420. Pressure test against CIBP @ 2500 #. POOH w/ tbg. Spot 35 ft of cement on top of CIBP (if dump bailer is to be used tag cement cap afterwards).
7. RU SLB. NU lubricator & test @ 500#.

Perforate following intervals at 3 spf @ 60-degree phasing w/ 3-3/8", HSD Power Jet 3406, HMX, 22.8 gm. (EHD: 0.37 in.; Penetration: 37 in.)...

	top	btm	ft.	SPF	Perfs
<b>Grayburg</b>	3817	3821	3	3	9
	3825	3827	2	3	6
	3861	3868	7	3	21

	3892	3898	6	3	18
	3903	3908	5	3	15
	3911	3920	9	3	27
	3929	3931	2	3	6
	3935	3942	7	3	21
	3948	3953	5	3	15
	3954	3959	5	3	15
	3968	3972	4	3	12
	3977	3981	4	3	12
			59		177

Note: collars recorded on Baker Atlas CBL of 09.07.01; KB – GL: 11 ft.):

Collar	Collar-Collar
3772	
3814.5	42.5
3854.5	40
3898	Dv tool
3971	
4014	43
4057	43
4094	37
4137	43
4180	43
4222.5	42.5
4262	39.5
4303	41
4347	44
4388	41

8. RIH w/ tbg, PKR & RBP. Acidize Grayburg perforations w/ total 177 bbl (7434 gal) 15% NE Fe HCl:

Acidize Gross Interval:

- Set RBP @ 4080 (between perf: 3981 & csg collar: 4094
- Pull EOT to 3760. Pump 15% NE Fe HCl using 1.1 SG, 5/8" bio balls followed by 4.3 bbl 2% KCl.
- SD and allow well to equalize.
- Pump w/ 23 bbl 2% KCl to flush to bottom perf.
- Record ISIP, SITP(5 min), SITP(10 min) & SITP(15 min).

POOH w/ tbg, PKR.

9. PU & RIH w/ 3-1/2", 9.3#, N-80 tbg w/ PKR (5-1/2", 17#). Test tbg @ 8500# while RIH (3-1/2", 9.3#, N-80 Internal Yield Prs: 10,160#).

Set PKR @ 3717 Test 3-1/2" x 5-1/2" annulus & PKR @ 500#.

10. RU SLB. Set treating line pop-off to release @ 8500#.  
 Set pump trips @ 8000#.  
 Install spring-operated relief valve on csg-tbg annulus. Pre-set @ 500#.  
 Load 3-1/2" x 5-1/2" annulus. Note annulus fills volume. Place 200# on csg.  
 Test surface lines @ 9000#.

Frac 3817-3981 down 3-1/2", 9.3#, N-80 tbg w/ 89,000 gal YF120ST w/ 68,250# 20/40 Brown sand & 57,750# resin-coated 20/40 Brown sand. Mark flush @ 1#. Flush w/ 1360 gal WF110 (capacity to uppermost perforation: 1393 gal ;). Anticipated treating rate: **30 BPM @ 6000#:**

	Fluid	Proppant	Clean Vol.			Proppant			Slurry Vol			Pump Time @ 30 BPM	
			gal	bbl	cum bbl	ppg	lbs	cum lbs	gal	bbl	cum bbl	min.	cum min.
Pad	YF120ST		35000	833.3	833.3	0.00	0	0	35000	833.3	833.3	27.8	27.8
Stage	YF120ST	20/40 Brown	3000	71.4	904.8	0.25	750	750	3034	72.2	905.6	2.4	30.2
Stage	YF120ST	20/40 Brown	3000	71.4	976.2	0.50	1500	2250	3068	73.0	978.6	2.4	32.6
Stage	YF120ST	20/40 Brown	3000	71.4	1047.6	0.75	2250	4500	3102	73.9	1052.5	2.5	35.1
Stage	YF120ST	20/40 Brown	3000	71.4	1119.0	1.00	3000	7500	3136	74.7	1127.1	2.5	37.6
Stage	YF120ST	20/40 Brown	3000	71.4	1190.5	1.25	3750	11250	3170	75.5	1202.6	2.5	40.1
Stage	YF120ST	20/40 Brown	3000	71.4	1261.9	1.50	4500	15750	3204	76.3	1278.9	2.5	42.6
Stage	YF120ST	20/40 Brown	3000	71.4	1333.3	1.75	5250	21000	3238	77.1	1356.0	2.6	45.2
Stage	YF120ST	20/40 Brown	3000	71.4	1404.8	2.00	6000	27000	3272	77.9	1433.9	2.6	47.8
Stage	YF120ST	20/40 Brown	3000	71.4	1476.2	2.25	6750	33750	3306	78.7	1512.6	2.6	50.4
Stage	YF120ST	20/40 Brown	3000	71.4	1547.6	2.50	7500	41250	3340	79.5	1592.1	2.7	53.1
Stage	YF120ST	20/40 Brown	3000	71.4	1619.0	2.75	8250	49500	3374	80.3	1672.4	2.7	55.7
Stage	YF120ST	20/40 Brown	3000	71.4	1690.5	3.00	9000	58500	3408	81.1	1753.6	2.7	58.5
Stage	YF120ST	20/40 Brown	3000	71.4	1761.9	3.25	9750	68250	3442	81.9	1835.5	2.7	61.2
Stage	YF120ST	RC 20/40 Brown	3000	71.4	1833.3	3.50	10500	78750	3476	82.8	1918.3	2.8	63.9
Stage	YF120ST	RC 20/40 Brown	3000	71.4	1904.8	3.75	11250	90000	3510	83.6	2001.8	2.8	66.7
Stage	YF120ST	RC 20/40 Brown	3000	71.4	1976.2	4.00	12000	102000	3544	84.4	2086.2	2.8	69.5
Stage	YF120ST	RC 20/40 Brown	3000	71.4	2047.6	4.00	12000	114000	3544	84.4	2170.6	2.8	72.4
Stage	YF120ST	RC 20/40 Brown	3000	71.4	2119.0	4.00	12000	126000	3544	84.4	2255.0	2.8	75.2
Flush	WF110		1400	33.3	2152.4	0	0	126000	1400	33.3	2288.3	1.1	76.3
			90400	2152			126000		96108	2288		76.3	

Report ISIP, SITP (5 min), SITP (10 min) & SITP (15 min). RD SLB. SDON.

11. SION to allow resin-coated sand to cure. Flow back well until dead. POOH & LD 3-1/2", 9.3#, N-80 frac string & PKR.
12. RIH. w / 2 7/8" tubing. NDBOP. NUWH and run with. Space pump; hang well, load tubing and check pump action. RDMO. Handover to Operations.

	Capacity		Internal Diam. : in.		Internal Yield (Burst): psi	
	bbl / ft	gal /ft	nom.	drift	100%	80%
2-7/8", 6.5#, J-55	0.00579	0.2431	2.441	2.347	7260	5808
3-1/2", 9.3#, N-80	0.0087	0.3652	2.992	2.867	10160	8128
5-1/2", 17#, J-55	0.02324	0.9764	4.892	4.767	5320	4256

2-7/8" x 5-1/2", 17#	0.0152	0.6392				
3-1/2" x 5-12", 17#	0.0113	0.4766				

## **Conditions of Approval**

**Conoco Phillips Company**

**SEMU 156**

**API 30-025-35537**

**T20S-R37E, Sec 25**

January 2, 2013

**Notify BLM at 575-393-3612 a minimum of 24 hours prior to commencing work.**

**Work to be completed by April 2, 2013.**

- 1. Recompletion not in current Plan of Development (POD) dated 2/28/2012.**
- 2. Operator shall indicate on POD their plans to further develop the Grayburg formation.**
- 3. A commercial well determination shall be done on this well after 6 to 8 months of production from the Grayburg formation.**
- 4. A balanced cement plug shall be set at 7054' and shall be 171' in length to isolate the Abo formation. The plug shall be set at approximately 7054'-6883'. Tag required.**
- 5. CIBP shall be set at 6430' (66' above the top perforation). A minimum of 35' of Class C cement shall be placed on top of the CIBP. Tag required if dump bailer is used.**
- 6. A balanced cement plug shall be set at 5308' and shall be 154' in length to isolate the Glorietta formation. The plug shall be set at approximately 5308'-5154'. Tag required.**
- 7. Due to being within the Lesser Prairie Chicken habitat, this workover activity will be restricted to the hours of 9:00am through 3:00am for the period of March 1 through June 15. Exceptions to these restrictions may be granted by BLM's Johnny Chopp <jchopp@blm.gov> 575.234.2227 or Bob Ballard <bballard@blm.gov> 575.234.5973.**
- 8. Functional H<sub>2</sub>S monitoring equipment shall be on location.**
- 9. Subject to like approval by the New Mexico Oil Conservation Division.**
- 10. Notify BLM 575-200-7902 before plug back procedures. The procedures are to be witnessed. If no answer, leave a voice mail with the API#, workover purpose, and a call back phone number. If there is no response, 575-361-2822. Note the contact, time, & date in your subsequent report.**
- 11. Surface disturbance beyond the originally approved pad must have prior approval.**
- 12. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.**



13. A minimum of 2,000 (2M) BOPE shall be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M) Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
14. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
15. The BLM PET witness is to run tbg tally and agree to cement placement. Sample each plug for cement curing time and tag and/or pressure test (WOC time of 4 hours recommended) as requested by BLM PET witness.
16. Class H > 7,500' & Class C < 7,500') cement plugs(s) will be necessary. The minimum pumped volume of 25 sacks of cement slurry is to exceed a 100' cement plug across the drilled wellbore. Add 10% to the 100' slurry volume for each 1,000' of plug depth when calculations indicate the need. For any plug that requires a tag or pressure test a minimum WOC time of 4 hours(C) & 8 hours(H) is recommended. Formation isolation plugs of Class "C" to be mixed 14.8#/gal, 1.32 ft<sup>3</sup>/sx, 6.3gal/sx water and "H" to be mixed 15.6#/gal, 1.18ft<sup>3</sup>/sx, 5.2gal/sx water.
17. Minimum requirement for mud placed between plugs is 25 sacks of salt water gel per 100 barrels in 9 lb/gal brine.
18. File intermediate **subsequent sundry** Form 3160-5 within 30 days of any interrupted workover procedures and a complete workover subsequent sundry. File the subsequent sundry for the frac separately if it is delayed as much as 20 days.
19. Submit the BLM Form 3160-4 **Completion Report for the Grayburg** within 30 days of the date all BLM approved procedures are complete. **Include all formation tops.**
20. Workover approval is good for 90 days (completion to be within 90 days of approval). A detailed justification is necessary for extension of that date.
21. Submit evidence to support your determination that the well has been returned to active "beneficial use" for BLM approval on the Sundry Notice Form 3160-5 (the original and 3 copies).
22. Should "beneficial use" not be achieved submit for BLM approval a plan for plug and abandonment.

JAM 010213