Form 3160-5
(August 2007)

HOBBS OCD
OCT 28 2013
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OCD Hobbs

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

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 reverse side.

5. Lease Serial No.
NMLC031620A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
892000321E

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
SEMU 127

2. Name of Operator
CONOCOPHILLIPS COMPANY
Contact: RHONDA ROGERS
E-Mail: rogerrs@conocophillips.com

9. API Well No.
30-025-33895-00-S1

3a. Address
3300 N "A" ST BLDG 6
MIDLAND, TX 79705

3b. Phone No. (include area code)
Ph: 432-688-9174

10. Field and Pool, or Exploratory
SKAGGS Grayburg

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 25 T20S R37E NWSE 660FNL 1980FEL

11. County or Parish, and State
LEA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall 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 request to add perfs in the Grayburg @ 3900'-3983'.

During this procedure we plan to use the Closed-Loop System and haul content to the required disposal

APPROVED
OCT 24 2013
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #221203 verified by the BLM Well Information System
For CONOCOPHILLIPS COMPANY, sent to the Hobbs
Committed to AFMSS for processing by JOHNNY DICKERSON on 10/17/2013 (14JLD0716SE)

Name *(Printed/Typed)* RHONDA ROGERS — Title STAFF REGULATORY TECHNICIAN

Signature (Electronic Submission) — Date 09/25/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By EDWARD FERNANDEZ — Title PETROLEUM ENGINEER — Date 10/24/2013

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 Hobbs

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

OCT 29 2013

ConocoPhillips

SEMU 127 - ?
API#: 30-25-33895
Skaggs Drinkard Field
Lea County, New Mexico

The purpose of the proposed project is to add GRAYBURG perforations to the current interval. This well was originally completed in the San ANDRES (4170-4180') acidized with 1000 gals of 15% NEFE on 7.28.97.
GRAYBURG (3788-3890) @ 1 SPF fractured w/ 54,450 gals, 99,000 # 16/30 and 32,000 SLC on 8.12.97

Well Category One:

Well Category 1 due to a 100 ppm H2S ROE < 50'.
This well is not capable of hydrocarbon flow.
Class 2, 3000 psi, Hydraulic BOP is recommended.
No choke manifold is to be used. ONE BOP EXCEPTION: One untested barrier – dynamic fluid column.

H2S	ROE- ft.
100 ppm	4
500 ppm	2

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. Test anchors. Last well service 8.25.2008.

2. Spot 9 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 hydril 1 X 7-1/16" 5K Blowout Preventer (Single BOP: blinds) and environmental tray. Scan 2-7/8", 6.5# J-55 production tbg out of hole. LD Tbg.

4. The following is a summary of the current well configuration:

Spud Date: 6.28.97 Rls Date: 7.6.97	Depth RKB		Elev.: 3526 KB; 3537 GL (KB - GL: 11 ft.)
	top	btm	
8-5/8",7.972, 23#, M-50,	0	400	Lead: 250 Sxs , Class C @ 12.7 ppg
Hole Size: 12.25,			Tail : 100 sxs, Class C @ 14.8 ppg
			TOC @ Surface
5-1/2", 4.825,17# K55 , Hole: 7 7/8"	0	4300	**1st Stage :** Lead: 400 sxs, class C @ 12 ppg Tail: 350 sxs , Class C @ 14.8 ppg
PBTD: 4253			
Mud weight : 10 ppg @ TD (7008')			

Perforations:

Formation	Perforations (MD)	Net Total <ft>	Frac Grad	SPF	Phase	Anticipated Reservoir Pressure	Anticipated Reservoir Temperature
Grayburg	3788-3792, 3806-3810, 3828-3848, 3859-3863, 3882-3890	46	0.8	1	60	2000	109°

5. PU & RIH w 3-1/2", 9.3#, N-80 tbg work string tbg w/ 4-3/4" bit & 5-1/2", 17# csg scraper to 4000. Circulate bottoms up. Well Capacity w tubing 93 bbl. POOH with WS and bit. LD scraper and bit.

6. RU **SLB** Perforators. 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
Grayburg	3900	3903	3	3	9
	3907	3910	3	3	9
	3934	3937	3	3	9
	3958	3976	18	3	54
	3980	3983	3	3	9
			30		

7. RIH w/ tbg, PKR & CIBP with ball catcher. Test tbg @ 8500# while RIH (3-1/2", 9.3#, N-80 Internal Yield Prs: 10,160#). Acidize Grayburg perforations w/ total 45 bbl (1890 gal) 15% NE Fe HCl:

Acidize Partial Interval (3900-3983):

a. Set CIBP @ 4070 (between perf: 3983 & csg collar: 4081
b. Set packer @3895. Circulate wellbore fluid out. Test 3-1/2" x 5-1/2" annulus & PKR @ 500#. Break Perfs.
c. Pump 15% NE Fe HCl using 60, 5/8" RCN balls followed by 4.3 bbl 2% KCl.
d. SD and allow well to equalize.
e. Pump w/ 23 bbl 2% KCl to flush to bottom perf.
f. Record ISIP, SITP (5 min), SITP (10 min) & SITP (15 min).]
g. Reset packer to 3750'

*Note: Due to the configuration of the wellbore there may be problems setting the packer **@ 3895** to acidize partial interval **(3900-3983)** due to only **10ft** of blanket pipe between bottom of existing perfs **(3890)** and top of new perfs **(3900)**. At that point it is recommended to set packer between set of existing perfs (**3859-3863 & 3882-3890**) and extend the **EOT to 3900.***

8. RU **HALLIBURTON**. 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 **3788 - 3983** down 3-1/2", 9.3#, N-80 tbg as per attached schedule (see attachments). Anticipated treating rate: **30 BPM @ 6800#:**
Report ISIP, SITP (5 min), SITP (10 min) & SITP (15 min). RD SLB. SDON.

9. SI for a minimum of 18 hrs to allow resin-coated sand to cure. Flow back well until dead. Starting fllowback rate should not be higher than ½ bbl /min. **MIRU**, Release packer, tag for fill, If needed rig up reverse unit and circulate wellbore clean. POOH & LD 3-1/2", 9.3#, N-80 frac string & PKR.

10. RIH. w / 2 7/8" tubing (hydro testing while going in hole) according to proposed design in well view. NDBOP. NUWH and run with rods as per Rodstar. Space pump, hang well, load tubing and check pump action. RDMO. Handover to Operations.

Attachments:

1. **Pump Schedule.**


Microsoft Office
Excel Worksheet

MD Top	MD Bottom	Net Footage	TVD Top	TVD Bottom	SPF	# of perf	Status
3671	3684	13	3671	3684	1	13	
3694	3696	2	3694	3696	1	2	
3703	3705	2	3703	3705	1	2	
3732	3744	12	3732	3744	1	12	
3752	3758	6	3752	3758	1	6	
3730	3773	43	3730	3773	1	43	
3823	3839	16	3823	3839	1	16	
3834	3840	6	3834	3840	1	6	
3844	3850	6	3844	3850	1	6	
3856	3859	3	3856	3859	1	3	**Existing**
3882	3885	3	3882	3885	3	9	
3912	3917	5	3912	3917	3	15	
3926	3929	3	3926	3929	3	9	
3949	3951	2	3949	3951	3	6	
3955	3961	6	3955	3961	3	18	**Proposed**
Midperf:	**3816**	**128**				**166**	

SEMU 127

								Clean Volumes				Slurry volumes			
Stage	Rate	Fluid Type	Propant type	Propant conc	Stage Mass	Stage time	Cum Time	Gals	Bbls	Cum gals	Cum Bbls	Gals	Bbls	Cum Gals	Cum Bbls
Pad	30	Linear Gel				26	26	33000	786	33000	786	33000	786	33000	786
1 Sand Stage	30	XL Fluid	20/40 Brown	0.25	1000	3	29	4000	95	37000	881	4038	96	4038	882
2 Sand Stage	30	XL Fluid	20/40 Brown	0.5	2000	3	33	4000	95	41000	976	4075	97	4075	979
3 Sand Stage	30	XL Fluid	20/40 Brown	0.75	3000	3	36	4000	95	45000	1071	4113	98	4113	1077
4 Sand Stage	30	XL Fluid	20/40 Brown	1	4000	3	39	4000	95	49000	1167	4151	99	4151	1176
5 Sand Stage	30	XL Fluid	20/40 Brown	1.25	5000	3	43	4000	95	53000	1262	4189	100	4189	1275
6 Sand Stage	30	XL Fluid	20/40 Brown	1.5	6000	3	46	4000	95	57000	1357	4226	101	4226	1376
7 Sand Stage	30	XL Fluid	20/40 Brown	1.75	7000	3	49	4000	95	61000	1452	4264	102	4264	1478
8 Sand Stage	30	XL Fluid	20/40 Brown	2	8000	3	53	4000	95	65000	1548	4302	102	4302	1580
9 Sand Stage	30	XL Fluid	20/40 Brown	2.25	9000	3	56	4000	95	69000	1643	4340	103	4340	1683
10 Sand Stage	30	XL Fluid	20/40 Brown	2.5	10000	3	60	4000	95	73000	1738	4377	104	4377	1788
12 Sand Stage	30	XL Fluid	20/40 Brown	2.75	11000	4	63	4000	95	77000	1833	4415	105	4415	1893
13 Sand Stage	30	XL Fluid	20/40 Brown	3	12000	4	67	4000	95	81000	1929	4453	106	4453	1999
14 Sand Stage	30	XL Fluid	20/40 Brown	3.25	13000	4	70	4000	95	85000	2024	4491	107	4491	2106
15 Sand Stage	30	XL Fluid	20/40 RC	3.5	14000	4	74	4000	95	89000	2119	4528	108	4528	2213
16 Sand Stage	30	XL Fluid	20/40 RC	3.75	15000	4	77	4000	95	93000	2214	4566	109	4566	2322
17 Sand Stage	30	XL Fluid	20/40 RC	4	16000	4	81	4000	95	97000	2310	4604	110	4604	2432
18 Sand Stage	30	XL Fluid	20/40 RC	4	16000	4	85	4000	95	101000	2405	4604	110	4604	2541
Spot Acid	30	15% HCL				0	85	500	12	101500	2417	500	12	500	2553
Flush	10	2 % KCL				3	88	1300	31	102800	2448	1300	31	1300	2584

Total treatment time < Hr >	1.5
Total propant < Lbs >	152000
20/40 Brown	91000
20/40 RC	61000
Fluids Breakdown Clean < Gals >	101500
Linear Gel	33000
15% HCL	500
XL Fluid	68000
Frac tanks to line up	9

Power Requirements

MAX HHP <HP>	6111.29035
Input Power <KW>	827.993748