Form 3160-4 (June 2015)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

WELL COMPLETION	N OR RECOMPLETION	REPORT AND LOG
WELL CONFELIN	N OR RECUIRE LE HON	DEFUNI AND LUG

WELL COMPLETION OR RECOMPLETION REPORT AND LOG									5. Lo	5. Lease Serial No.						
1a. Type of Well									g	6. If Indian, Allottee or Tribe Name						
Other:											7. U	7. Unit or CA Agreement Name and No.				
2. Name o	f Operator											8. Le	ease Na	me and We	ll No.	
3. Address						38	a. Phone	No. (In	clude a	rea coa	le)	9. A	PI Well	No.		
4. Location	n of Well (R	eport loca	ation clearly a	and in acc	ordance with Fed	deral requir	rements)*					10. F	ield an	d Pool or E	xplor	atory
At surfac	ce												Sec., T., Survey o	R., M., on or Area	Block	and
	od. interval	reported	below									12. 0	County	or Parish	1	3. State
At total depth  14. Date Spudded											17. I	17. Elevations (DF, RKB, RT, GL)*				
18. Total Depth: MD TVD 19. Plug Back T.D.: MD TVD 20. Depth Bridge Plu											idge Plu	g Set:	MD ΓVD			
				·	nit copy of each)				1	as DST			No [	Yes (Subn Yes (Subn Yes (Subn	nit rej	port)
			eport all strin			Stage C	ementer	No.	of Sks. 4	& I	Slurry (BB)	Vol.		, T. *		A (D.II.)
Hole Size	Size/Gra	ade W	t. (#ft.) To	op (MD)	Bottom (MD)	De	Cementer epth	Type	of Ceme	of Sks. & of Cement		L)	Cement Top*		Amount Pulled	
24. Tubing	Record															
Size		Set (MD)	Packer Dep	t (MD)	Size	Depth S	et (MD)	Packer	Depth (N	MD)	Size	;	Depth	Set (MD)	P	acker Depth (MD)
25. Produc	ing Interval	ls				26. Perfe	oration Re	ecord								
	Formation		Т	op .	Bottom	P	erforated I	nterval		Si	ze	No. H	loles		Perf	. Status
A) B)																
C)																
D)																
	Fracture, Tre	eatment, C	Cement Squee	ze												
	Depth Interv				Amo	ount, Type of	Material									
	tion - Interv		T	10:1		OX 7 .	01.0	٠,	la.		lp. 1		<i>f</i> -1 1			
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL		Water BBL	Oil Gra Corr. A				uction Method					
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL		Water BBL	Gas/Oil Ratio	[	We	Well Status						
	ction - Inte		1	1												
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL		Water BBL	Oil Gra Corr. A	vity PI.	Gas Gra	s ivity	Prod	uction N	Method			
Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL		Water BBL	Gas/Oil Ratio	<u> </u>	We	ll Statu	IS					
1.00	<u> </u>		111111													

<sup>\*(</sup>See instructions and spaces for additional data on page 2)

	iction - Inter		- Im .	10.1		Lvvv.	long :	l a				
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method			
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	3			
	iction - Inter							'				
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method			
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status				
29. Dispos	sition of Gas	(Solid, u	sed for fuel, v	ented, etc	c.)							
30. Summ	30. Summary of Porous Zones (Include Aquifers):  31. Formation (Log) Markers											
Show	ll important	zones of	norocity and c	ontente tl	pergof: Cored	l intervals and a	all drill-stem tests,					
includi recover	ng depth inte	erval teste	d, cushion use	ed, time to	ool open, flov	ving and shut-ir	n pressures and					
										Тор		
Form	nation	Top Bottom				iptions, Conten	ts, etc.		Name	Meas. Depth		
32. Additio	onal remarks	s (include	plugging pro	cedure).								
33. Indicate which items have been attached by placing a check in the appropriate boxes:												
☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ Directional Survey  ☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:												
						Core Analysis	Other:	1.0				
34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*  Name (please print) Title												
		print)										
Signature Date												

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.

(Continued on page 3) (Form 3160-4, page 2)

## **INSTRUCTIONS**

GENERAL: This form is designed for submitting a complete and correct well completion/recompletion report and log on all types of wells on Federal and Indian leases to a Federal agency, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal office. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal office for specific instructions.

ITEM 17: Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

ITEM 23: Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

## NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48 (d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seg., 351 et seg., 25 U.S.C. et seg.; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is to be used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.

ROUTINE USES: (1) Evaluate the equipment and procedures used during the drilling and completing/recompleting of a well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/recompleted.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/recompleting wells on Federal and Indian oil and gas leases.

This information will be used to analyze operations and to compare equipment and procedures actually used with those proposed and approved.

Response to this request is mandatory only if the operator elects to initiate drilling and completing/recompleting operations on an oil and gas lease.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 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 U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.