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 COMPLET	ON OR RECOMP	FTION REPORT	. VND I OC
WLLL CONFLL	ION OR RECOIVE		AND LOG

WELL COMPLETION OR RECOMPLETION REPORT AND LOG									5. L	5. Lease Serial No.				
1a. Type of Well Oil Well Gas Well Dry Other b. Type of Competion New Well Work Over Deepen Plug Back Diff. Zones Hydraulic Fracturing										ng	6. If Indian, Allottee or Tribe Name 7. Unit or CA Agreement Name and No.			
Other:												8. Lease Name and Well No.		
2. Name o	f Operator										8. L	ease Na	me and We	ll No.
3. Address 3a. Phone No. (Include area code)											9. A	9. API Well No.		
4. Location of Well (Report location clearly and in accordance with Federal requirements)*										10. I	10. Field and Pool or Exploratory			
At surface												11. Sec., T., R., M., on Block and Survey or Area		
At top prod. interval reported below At total depth											12. (12. County or Parish 13. State		
14. Date Spudded 15. Date T.D. Reached 16. Date Completed D & A Ready to Prod.											17.]	17. Elevations (DF, RKB, RT, GL)*		
18. Total I	Depth: MD			19. Plu	ig Back T.D.:				0. Depth E		lug Set:	MD TVD		
					it copy of each)		2.	2. Was we Was DS Direction	T run?		No 🗀	Yes (Subn Yes (Subn Yes (Subn	* '
Hole Size	Size/Gra		port all strin	g <u>s set in w</u> op (MD)	Bottom (MD	Stage Co	Stage Cementer Depth		f Sks. & f Cement	s. & Slurry		y Vol. Cement Top*		Amount Pulled
			()	· F ()		Dep	ptn	Type of	I Cement	(B	BL)) Coment Top		
24. Tubing Size		Set (MD)	Packer Dep	t (MD)	Size	Depth Se	et (MD)	Packer D	epth (MD)	Si	ize	Depth	Set (MD)	Packer Depth (MD)
25. Produc	ing Interval					26. Perfo								
A)	Formation	1	T	op	Bottom	Pe	Perforated Interval			Size		No. Holes		Perf. Status
B)														
C)														
D)			ement Squee											
27. Acid, i	Depth Interv		ement Squee	ze	Am	ount, Type of	Material							
	ction - Interv		I	Lon	Ia I	***	102.0		Gas	- In				
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL		Oil Gravity Corr. API.		Pro	Production Method			
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oi Ratio	1	Well Sta	Well Status				
	ction - Inter													
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL		Water BBL	Oil Gra Corr. A	avity API.	vity Gas Produ PI. Gravity		oduction N	Method		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL		Water BBL	Gas/Oi Ratio	1	Well Sta	tus				
*(See instr	uctions and	spaces for	additional da	 ita on page	2)									

	uction - Inter		- Im .	10.1	Ta .	Tyry .	long o	la la	D 1 2 3/4 1			
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			
28c. Production - Interval D												
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	Well Status			
29. Disposition of Gas (Solid, used for fuel, vented, etc.)												
30. Summary of Porous Zones (Include Aquifers): 31. Formation (Log) Markers												
Show	all important	zones of	norosity and c	ontents t	hereof: Cored	l intervals and a	all drill-stem tests,					
includi	ng depth inte	erval teste	d, cushion use	ed, time to	ool open, flow	ving and shut-in	n pressures and					
Form	nation	ion Top Bottom			Descri	iptions, Conten	ts, etc.		Name	Meas. Depth		
32. Additi	onal remarks	s (include	plugging pro	cedure).								
				ŕ								
33. Indica	te which iter	ns have b	een attached l	by placin	g 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:												
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												
	gnature						Date					
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.