UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: July 31, 2010

5. Lease Serial No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

la. Type of b. Type of	e of Well Oil Well Gas Well Dry Other e of Completion: New Well Work Over Deepen Plug Back Diff. Resvr.,									6. If Indian, Allottee or Tribe Name					
Other:									7. Unit or CA Agreement Name and No.						
2. Name of Operator											8. Lea	8. Lease Name and Well No.			
3. Address 3a. Phone No. (include area code)											9. AF	9. AFI Well No.			
4. Location of Well (Report location clearly and in accordance with Federal requirements)*											10. Fi	10. Field and Pool or Exploratory			
At surface												11. Sec., T., R., M., on Block and			
													irvey or Area		Transis and
	od. interval i	reported	below									12. C	ounty or Parish		13. State
At total depth 14. Date Spudded											17. E	levations (DF,	RKB,	RT, GL)*	
18. Total D	enth: MD)		19	Plug Back T.D.:	D & A Ready to Prod. k T.D.: MD 20. Depth Bridge Plug S						Set: MD			
	TV	D				TVD						T	VD		
21. Type E	lectric & Oth	ner Mech	anical Logs	Run (Submit	copy of each)					Was well Was DST Direction		No No No	Yes (Su	bmit re	port)
23. Casing	and Liner F	Record (Report all	strings set in v	vell)		C+ C	N					•		
Hole Size	Hole Size Size/Grade		Wt. (#/ft.)	Top (MD)	Bottom (I	MD)	Stage Cementer Depth		No. of Sks Type of Ce				Cement Top*		Amount Pulled
														+	
24. Tubing Size	Record	Set (MD) Packe	r Depth (MD)	Size	T	Depth Set	(MD) Packe	er Depth	(MD)	Size		Depth Set (M	D)	Packer Depth (MD)
Size	Бериг	Set (ML) Tacke	r Deptii (MD)	Size		ocpui set	(IVID) Tack	ст Бериг	(IVID)	SIZC		Depui set (W	<i>D</i>)	r acker Deptii (MD)
25. Produci					ъ	26.		ration Record	i	1 .	. 1	NY 11	,	,	2. 6. 6
A)	Formatio	n	Тор		Bottom	BOLLOIII		rforated Interval		Size		No. Holes		1	Perf. Status
B)															
C)															
D)															
27. Acid, F	racture, Trea		Cement Sq	ueeze, etc.				Amour	nt and T	ype of M	[aterial				
	Бериг инсег	vui						rimour	it und 1	ype or iv	uteriui				
28. Product	ion Intomy	o1 A													
Date First	Test Date	Hours	Test	Oil	Gas	Water		Oil Gravity		as	Produ	ction Me	thod		
Produced		Tested	Produc	etion BBL	MCF	BBL	C	Corr. API	G	ravity					
Choke	Tbg. Press.		24 Hr.	Oil	Gas	Water		Gas/Oil	W	ell Statu	S				
Size	Flwg. SI	Press.	Rate	BBL	MCF	BBL	F	Ratio							
28a. Produc				1											
		Hours Tested	Test Produc	Oil BBL	Gas MCF	Water BBL		Oil Gravity Corr. API	G G	as ravity	Produ	ction Me	thod		
Choke	Tbg. Press.	Csg.	24 Hr.	Oil	Gas	Water	. (Gas/Oil	W	ell Statu	s				
Size	Flwg. SI	Press.	Rate	BBL	MCF	BBL		Ratio							

^{*(}See instructions and spaces for additional data on page 2)

201. Dec 1		1 C											
Date First	uction - Inte Test Date	Hours	Test	Oil	C	Water	Oil Gravity	·	Gas	Production Method			
Produced	Test Date	Tested	Production	BBL	Gas MCF	BBL	Corr. API		Jas Gravity	Production Method			
rioduced		resteu	Fioduction	DDL	MCF	DDL	Coll. AFI		Jiavity				
Choke	Tbg. Press	. Csg.	24 Hr.	Oil	Gas	Water	Gas/Oil	V	Well Status	-			
Size	Flwg.	Press.	Rate	BBL	MCF	BBL	Ratio						
	SI												
28c. Prod	uction - Inte	erval D											
Date First	Test Date	Hours	Test	Oil	Gas	Water	Oil Gravity		Gas	Production Method			
Produced		Tested	Production	BBL	MCF	BBL	Corr. API	C	Gravity				
Choke	Tbg. Press	Coo	24 Hr.	0:1	Cara	Water	Gas/Oil	v	Well Status				
Size	Flwg.	Press.	Z4 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Ratio	v	ven Status				
Size	SI	1 1033.	Kate	DDL	IVICI	DDL	Ratio						
29. Dispo	sition of Ga	s (Solid, us	sed for fuel, ve	ented, etc.)		· ·							
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 porosity and contents thereof: Cored intervals and all drill-stem tests,													
including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and													
recoveries.													
			1										
			ъ		Descriptions, Contents, etc.						Тор		
Formation		Top	Bottom		Desc	criptions, Conte	ents, etc.			Name	Meas. Depth		
32 Addit	ional remar	ks (include	plugging pro	cedure).				I					
52. Hudii	ionai ionai	ns (merade	prugging pro	ccaure).									
22 T. I'.		1 1.				appropriate bo							
55. Indica	ate which ite	ems nave b	een attached t	by placing	a cneck in the	appropriate bo	oxes:						
Electrical/Mechanical Logs (1 full set req'd.) Geologic Report DST Repo										Directional Survey			
									•	Directional Survey			
Sundry Notice for plugging and cement verification Core Analysis Other:													
24 :								1.6					
34. I here	by certify th	nat the fore	going and atta	ached info	rmation is con	nplete and corre	ect as determine	d from all	I available re	ecords (see attached instructions)*			
Name (please print) Title													
S	ignature						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 seq., 351 et seq., 25 U.S.C. et seq.; 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.