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Form 3160-3 (August 1999)

UNITED STATES

DEC 18 2007

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

DEPARTMENT OF THE INTERIOR

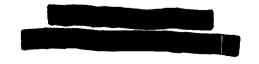
BUREAU OF LAND MANAGEMENIPUreau of Land Management

NM 0607 93313

5. Lease Serial No.

1a. Type of Work: X DRILL REENTER 7. If Unit or CA Agreement, Name and	7. If Unit or CA Agreement, Name and No			
8. Lease Name and Well No.				
Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone Atlantic C #101E				
2. Name of Operator 9. API Well No				
Great Western Drilling Company 30-045-34546				
3A. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory				
c/o Walsh Engineering,7415 E. Main, Farmington, NM 87402 (505) 327-4892 Basin Dakota				
4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T., R., M., or Blk, and Survey	or Area			
At surface 1165' FSL and 795' FEL				
At proposed prod. Zone P Sec. 6, T30N, R10W				
14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. Sta				
3 miles east of Aztec, NM San Juan N 15 Distance from proposed* 16 No. of Acres in lease 17 Spacing Unit dedicated to this well	VI			
location to nearest				
(Also to nearest drig unit line, if any) 640 + E/2 321.98 acres				
18. Distance from proposed location* to nearest well, drilling, completed, 19. Proposed Depth 20. BLM/BIA Bond No. on file				
applied for, on this lease, ft. 7520° +/- Nm 6996	Nm 0996			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration				
	2 weeks			
24. Attachments				
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form.				
1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (s	ee			
2. A Drilling Plan. Item 20 above). RCUD MAR 20 '08				
,	on cons. Div.			
SUPO shall be filed with the appropriate Forest Service Office. 6. Such other site specific information and/or plans as may be required by the				
authorized office.				
25. Signature Name (Printed/Typed) Date	_			
Tan C. Hompson, P.E. 12/17/200	<u> </u>			
Approved by (Signature) / // Name (Printed/Typed) Date	/-			
J) // (1/2000)	イタ			
Title Office				
AFM FTO				
Application approval 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.				
Conditions of approval, if any, are attached.				
Title 18 U.S.C. Section 1001and 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 Section 1001and 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 Section 1001and 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 Section 1001and 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 Section 1001and 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 Section 1001and 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 Section 1001and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and will full to make to any department or agency of the United Section 1001and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and will full to make to any department or agency of the United Section 1001and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and will full to make to any department or agency of the United Section 1001and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and will full to make to any department or agency of the United Section 1001and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and will full to make to any department or agency of the United Section 1001and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and will full to make to any department or agency of the United Section 1001and Title 43 U.S.C. Section 1001and Title 43 U	ited			

*(Instructions on reverse)



BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS



NMOCD 5 MAR 2 4 2000 AV

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

State of New Mexico

Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005 Instructions on back

¹ District II 1301 W. Grand Avenue, Artesia, NM 88210

OIL CONSERVATION DIVISION C SUBMIT TO Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies 1220 South St. Francis Dr.

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

Santa Fe, NM 87505

DEC 18 2007 AMENDED REPORT

Certificate Number

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Bureau of Land Management Farmington Field Office

			WELL	LOCAT	TION AND	А	CREAGE DED	ICA	TION PL	_AT			
'API Number				*Pool Code *Pool Name									
30-045-34546				71599 BASIN DAKOTA									
*Property Code					*Prope	. ,					*Well Number		
32741					ATLA	TM	IC C				101E		
OGRID No					*Opera	tor	Name				*Elevation		
9338				GREAT WESTERN DRILLING						62191			
					¹⁰ Surfac	e	Location						
UL or lot no	Section	Township	Range	Lot Idn	Feet from th	æ	North/South lane	FE	et from the	East/We	st line	Cour	ity
P	6	30N	10W		1165		SOUTH		795	EA	ST	SAN	NAUL
L	L.,	11 Bc	ottom	Hole	Location	Ī	f Different	Fr	om Surf	ace		-1	
UL or lot no	Section	Township	Range	Lot Idn	Feet from th	e	North/South line		et from the	East/We	st line	Cour	nty
									,				
12 Dedicated Acres		QR Arres	- (F	/21	Joint or Infil	11	¹⁴ Consolidation Code	¹⁵ Ordi	ir No				
321.98 Acres - (E/2)													
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													
16 1284.3	36'	1352				===			17 OPER	ATOR	CERTI	FICAT	TON
120 1.	50	1002		4	. 2	041	5.60'	_	I hereby ce	rtify that	the info	ormation co	ntained
72	_							76	knowledge a	nd belief.	and that	this organ	nization
4 ro		LO			LOT		LOT LOT	m	mineral int	erest in t	he land i	including t	he
317		10	U	1	9		¦ 8	34	to drill th	is well at	this loc	ation purs	uant
				d			ĺ		I hereby ce herein is t knowledge a either owns mineral int proposed bo to drill th to a contra or working agreement o heretofore	interest, (or to a vi	oluntary p	coling
]		H	L	E	ASE		heretofore	entered by	the divi	510N	
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13				4				133	18 SURVE	YOR (FRTT	FICAT	IDNI
		1		1				• •	الانانان	_ 1 0 1 1	-C1111		7 O I V

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 Survey Date: DECEMBER 6, 2007 LOT Signature and Seal of Professional Surveyor LOT LOT LOT 16 EDWARDS JASON 17 19 18 LAT: 36.83651 N LONG: 107.91805 W DATUM: NAD1983 SEW MEXIC 44 .46 A POPESSION 2629. SANETOR 2660. 795 LOT LOT LOT. LOT 165 20 21 22 23 2638.58 1319.34 1246.74

	ibmit 3 Copies To Appropriate District	State of New M			orm C-103
	strict I 25 N French Dr., Hobbs, NM 88240	ergy, Minerals and Nat	iral Resources	WELL API NO.	Ma <u>v 27, 2004</u>
D	strict II 01 W Grand Ave , Artesia, NM 88210	OIL CONSERVATION	DIVISION	-00-045-25339- 30·W	<u>5.345</u> 46
D	strict III	1220 South St. Fra		5. Indicate Type of Lease STATE FEE	
	00 Rio Brazos Rd, Aztec, NM 87410 strict [V	Santa Fe, NM 8	7505	6. State Oil & Gas Lease No.	
12	20 S St Francis Dr , Santa Fe, NM			NM 0607 FEDERAL	
(E	SUNDRY NOTI O NOT USE THIS FORM FOR PROPO: FFERENT RESERVOIR USE "APPLIC	CES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PL CATION FOR PERMIT" (FORM C-101) F	UG BACK TO A	7. Lease Name or Unit Agreem Atlantic C	ent Name
	ROPOSALS.) Type of Well: Oil Well	Gas Well 🛛 Other	IWED	8. Well Number #101E	
	Name of Operator		2000	9. OGRID Number 9338	
G	reat Western Drilling Company	FEB 2	7 2008		
	Address of Operator 115 East Main Street Farmington,	MM 97401 - Bulgas Ur Lär	d Management	10. Pool name or Wildcat	
ļ	Well Location	Famington	Field Office		
4.		om the South line and 795 feet from	n the Fast line		
	Section 6		ge 10W	NMPM County Sa	n Juan
200 Z		11. Elevation (Show whether DR			
200		6219'			
i	or Below-grade Tank Application 🛛 o				4100'
1		ter_>50'Distance from nearest fre			-1000
Pit	Liner Thickness: 12 mil		000_bbls: Construction		
	12. Check A	Appropriate Box to Indicate N	ature of Notice, I	Report or Other Data	
	NOTICE OF IN	TENTION TO:	SUBS	SEQUENT REPORT OF:	
	RFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK		ASING 🗌
	MPORARILY ABANDON	CHANGE PLANS	COMMENCE DRIL		
Pι	JLL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT	JOB []	
0	THER: RESERVE 7,-	X	OTHER.		
		eted operations. (Clearly state all			
	of starting any proposed wo or recompletion.	rk). SEE RULE 1103. For Multip	le Completions: Atta	ach wellbore diagram of proposed	l completion
	of recompletion.		•		
2/11	3/08 Great Western Drilling Com	pany requests permission to constr	ict a drilling reserve	nit	
411.	orough Western Drining Comp	party requests permission to constit	ict a driffing reserve	ριι.	
I he	reby certify that the information a	bove is true and complete to the be	st of my knowledge	and belief. I further certify that any	pit or below-
grad	e tank has been/will be constructed or o	closed according to NMOCD guidelines], a general permit [_] o	r an (attached) alternative OCD-appro-	ved plan ∐.
SIG	NATURE Tau/C.	TITLE_	AGENT	. DATE 2/13	/03
	e or print name Paul C. Thomp State Use Only	son E-mail addre	ss: paul@walsheng	g.net Telephone No. 505-32	7-4892
. 01	/)/ De	puty Oil & Gas	s Inspector	\
	PROVED BY:	TITLE_	District	#3 DATE MAR	<u> </u>
Con	ditions of Approval (if any):	N			

GREAT WESTERN DRILLING OPERATIONS PLAN Atlantic C #101E

Date: December 17, 2007

I. Location: 1165' FSL & 795' FEL

Sec 6, T30N, R10W San Juan County, NM

Field: Basin Dakota Elev: GL 6219'

Surface: BLM Minerals: NM 0607

II. Geology: Surface formation Nacimiento

Depths
1380′
1535 ′
2470′
2820'
4425′
4620 ′
5045 ′
5395 ′
6340 ′
7080 ′
7140′
7190 ′
7470′
7520 ′

Estimated depths of anticipated water, oil, gas, and other mineral bearing formations which are expected to be encountered:

Water and gas - 2470', 2820', 4425', 5045', and 7190'.

- B. Logging Program: Induction/GR and density logs at TD.
- C. No over pressured zones are expected in this well. No H_2S zones will be penetrated in this well. Max. BHP = 2000 psig.

III. Drilling

- A. Contractor:
- B. Mud Program:

The surface hole will be drilled with a fresh water mud.

The intermediate hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 8.9 ppg.

The production hole will be drilled with air or air/mist.

C. Minimum Blowout Control Specifications:

Double ram type 2000 psi working pressure BOP with a rotating head. See the attached Exhibit #1 for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1000 psi.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

IV. Materials

Α.	Casing Program:	•		\$
	Hole Size	Depth	Casing Size	Wt. & Grade
	12-1/4"	200 ′	9-5/8"	36# J-55
	8-3/4"	3080 ′	7 "	20# J-55
	6-1/4"	7520 ′	4-1/2"	10.5# & 11.6# J-55

B. Float Equipment:

- a) Surface Casing: Notched collar on bottom and 3 centralizers on the bottom 3 joints.
- b) Intermediate Casing: 7" cement guide shoe and self fill insert float collar. Place float one joint above shoe. Ten centralizers spaced every other joint above shoe and ten turbolizers every other joint from 1500'.
- c) Production Casing: 4-1/2" whirler type cement nosed guide shoe and a float collar on top of the bottom joint.

Atlantic C #101E Operations Plan Pg #3

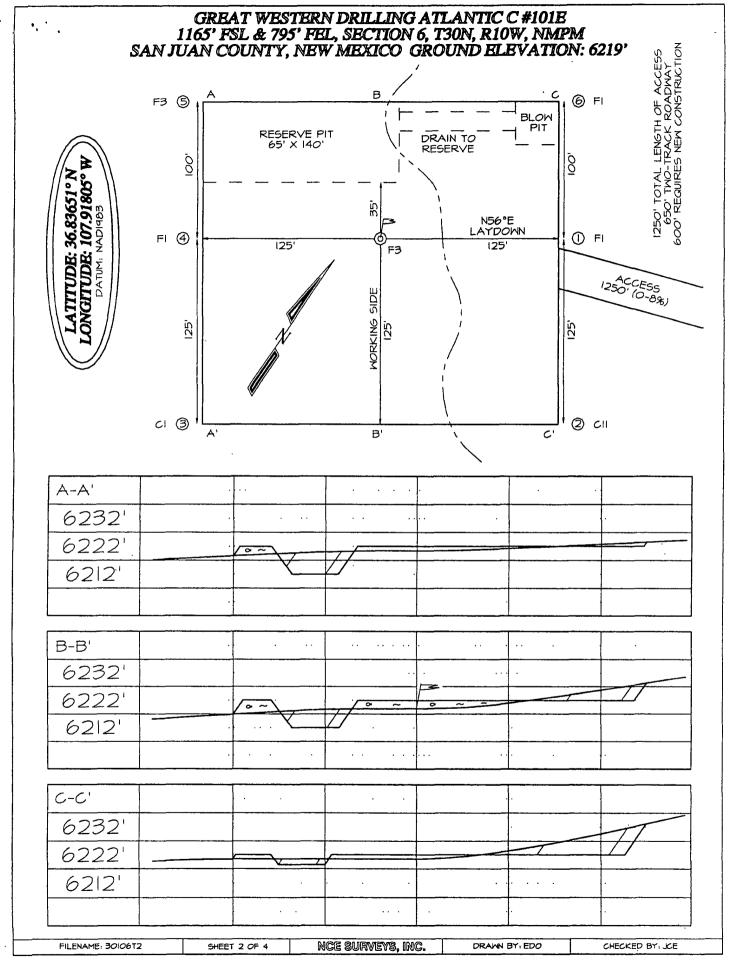
V. Cementing:

Surface casing: 9-5/8" - Use 110 sx (130 cu. ft.) of Type 5 with 2% CaCl₂ and $\frac{1}{4}$ #/sk celloflake (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 1000 psi for 30 min.

Intermediate Casing: 7" - Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 30 bbls of fresh water. Lead with 360 sx (742 cu.ft) of Type 5 with 2% sodium metasilicate, 5 #/sk gilsonite, and #/sk. celloflake. (Yield = 2.06 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 150 sx (185 cu.ft.) of Type 5 with 5 #/sk gilsonite, and #/sk. celloflake. (Yield = 1.23 cu. ft./sk; slurry weight = 15.6 PPG). Total cement volume is 927 cu.ft. (100% excess to circulate cement to surface). WOC for 12 hrs. Pressure test the BOP and casing to 1500 psi.

Production Casing: 4-1/2" - Blow hole clean. Precede cement with 20 bbls of gel water and 10 bbls of water. Lead with 305 sx (604 cu.ft.) of Premium Lite HS with 0.65% FL-52, 0.32% CD-32, $\frac{1}{4}$ #/sk celloflake, and 4% phenoseal. (Yield = 1.98 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 100 sx (196 cu.ft.) of Premium Lite HS with 0.65% FL-52, and 0.32% CD-32. (Yield = 1.96 cu.ft./sk; slurry weight = 12.5 PPG). Total cement volume is 800 cu.ft. (70% excess to circulate 100' above the intermediate casing).

Paul C. Thompson, P.E.



Great Western Drilling Company

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Exhibit #1 Typical BOP setup

