Form 3160-3 (September 2001)

ia. Type of Work: XI DRILL

# **UNITED STATES** DE В

Q REENTER

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

Canyon Largo Unit '

6. If Indian, Allottee or Tribe Name

DEPARTMENT OF THE INTERIOR		
BUREAU OF LAND MANAGEMENT 2005 DEC	6	PM 13
APPLICATION FOR PERMIT TO DRILL OR REENTER		

RECEIVED

Lease Serial No. 5. Lease 5-11.... 49 SF 078883

070 FARMINGTON MAIN Unit or CA Agreement, Name and No.

1b. Type of Well: Oil Well Gas Well Other	🔾 Sin	gle Zone 🔲 Mullip	le Zone	8. Lease Name and Well No	-φφυ	
2. Name of Operator		Canyon Largo 9. API Well No.	Unit 400			
Huntington Energy, L.L.C. 20870	30-039-29722					
Ja. Addres 6301 Waterford Blvd., Suite 400	3b. Phone No.	(include area code)		10. Field and Pool, or Exploratory		
Oklahoma City, OK 73118		840-9876	1	Basin Dakota		
4. Location of Well (Report location clearly and in accordance with)				11. Sec., T., R., M., or Blk. and Survey or Area		
	,				•	
At surface SENW 2420' FNL & 1835' FWL , At proposed prod. zone				Lot F, Sec 8	, 123N-KOW	
14. Distance in miles and direction from nearest town or post office"	<del></del>		<del></del>	12. County or Parish	13. State	
35 miles SE from Blanco, NM			Ì	Rio Arriba	NM	
15. Distance from proposed*	16 No of A	cres in lease	17 Sassine	Unit dedicated to this well		
location to nearest	1			<i>.</i>		
property or lease line, fL (Also to nearest drig, unit line, if any)	2369	.83	320	WL		
13. Distance from proposed location*	19. Propose	i Depth	20. BLM/E	IIA Bond No. on lile	····	
to nearest well, drilling, completed, applied for, on this lease, R.	7450	1	NMB(	00076		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	mate date work will sta	rt*	23. Estimated duration		
6710' GL	1			1		
	24. Atta	chments		<u> </u>		
The following, completed in accordance with the requirements of Onshe	ore Oil and Gas	Order No.1, shall be at	tached to thi	s form:	<del></del>	
	ı					
1. Well plat certified by a registered surveyor.		4. Bond to cover litem 20 above).		ns unless covered by an exist	ing bond on file (see	
<ol> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System</li> </ol>	lande the	5. Operator certific				
SUPO shall be filed with the appropriate Forest Service Office).	r canas, are	6. Such other site authorized office		ormation and/or plans as ma	y be required by the	
25. Signarye)	Name	(Prinsed/Typed)		! Date	•	
Catherine Smith		atherine Smil	:h	; î	2/1/05	
Title				<del></del>	<del></del>	
Land Associate					•	
Approved by (Signature)	Nam	(Printed/Typed)		! Dat	1	
1444 1-1618		- (			5/1/06	
Title	i Offic	:e	<del></del>			
Aline AM		-				
Application approval does not warrant or certify the the applicant holds	legal or equita	ble title to those rights	n 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 1001 and Title 43 U C. Section 1212, make States any false, fictitious or fraudulent statements or representations as	it a crime for a to any matter	ny person knowingly : within its jurisdiction.	ind willfully	to make to any department of	r agency of the United	
*(Instructions on reverse)						
	54	المحاركة				
	JU 31 3118	123				

This action is subject to technical and procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165 4

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980 State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

Revised June 10, 2003

Instructions on back
Submit to Appropriate District Offic
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II 1301 W. Grand Avenue, Artesia, N.M. 88210

OUSTRICT III 1000 Rio Brazos Rd., Axtec, N.M. 87410

DISTRICT IV

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87504-20885

6 PM 12 119 → AMENDED REPORT

		, 1	WELL L	OCATIO	N AND AC	REAGE DEDI	CATION PL	ĄΤ,			
'API	Number	072	2	Pool Code		070+	Pool Name		<del></del>		
30-03		712	<u></u>	71599			Basin D	akota	174	ll Number	
Property C	· i	^		_	Property					486	
OGRID No	3266	<u> </u>			ANYON LARGO					Elevation	
20870	i			ш	INTINGTON EN					710'	
20070	,, <u>1</u>			——————————————————————————————————————				<i>\\</i>		710	
						Location				<b>,</b>	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Bast/We		County	
F	8	25-N	6-W		2420'	NORTH	1835'	WE:		RIO AR	KIBA
			" Bott	om Hole	Location	If Different From	om Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Peet from the	East/We	st line	County	
18 Dedicated Acre	<u> </u>	<u> </u>	is Joint or	1-411	<sup>14</sup> Consolidation	<u></u>	<sup>16</sup> Order No.	<u> </u>		<u> </u>	
		-	Joint or	min	Consolidation	Code	-Urder No.				
DK -	W/320						ļ				
NO ALLOW	VABLE W					ION UNTIL ALL			EEN CO	DNSOLID	ATED
.6		OR A	NON-STA	INDARD	UNIT HAS B	EEN APPROVED	BY THE DI	<b>NOISI</b>			
S 00-32-58 E 2593.6' (M) B.T. B. P.	1835'		LAT: 3 LONG:	FD 3 B.L.M. 1965 1965 107°29.5		7) 27)	Signati Ca Printed La: Title Oc Date	thering the thering the thering the thering the thering the	e Smit		A hervin
1965		1					I hereby come plotte me or und correct All Date Signitus	ertify that to d from field ler my super to the best 100	he well local notes of activision, and it of my bell MEX.	tion shown on tual surveys t that the some	this pi made by e is tru

### **OPERATIONS PLAN**

Well Name:

Canyon Largo Unit #486

Location:

2420' FNL, 1835' FWL, NW/4 Sec 8, T-25-N, R-6-W NMPM

Rio Arriba County, NM

Formation:

Basin Dakota

Elevation:

6710' GL

Formation Tops:	Top	<u>Bottom</u>	<u>RMSL</u>
Ojo Alamo	2066'	2276'	4660
Kirkland	2276'	2451'	4450
Fruitland	2451'	2716'	4275
Pictured Cliffs	2716'	2791'	4010
Lewis Shale	2791'	3101'	3935
Huerfanito	3101'	4311'	3625
Cliff House	4311'	4368'	2415
Menefee	4368'	4961'	2358
Point Lookout	4961'	5291'	1765
Mancos	5291'	6108'	1435
Gallup (Niobrara)	6108'	6901'	618
Greenhorn	6901'	6964'	-175
Graneros	6964'	7011'	-238
Dakota	7011'	7336'	-285
Morrison	7336'	7450'	-610
TD	7450'		

### Logging Program:

Open hole logs - None

Cased hole logs - RST - TD to 6000'; CBL/GR - TD to 5800'

Cores & DST's – none Mud log – 2500' to TD

# Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	Vis.	Fluid Loss
0 – 320'	Spud	8.4-8.9		no control
320 – 7450'	LSND	8.4-9.0	40-60	

Pit levels will be visually monitored to detect gain or loss of fluid control.

# Casing Program:

	Hole Size 12 ¼" 7 7/8"	Depth Interval 0' - 320' 0' - 7450'	Csg. Size 8 5/8" 4 ½""	<u>Wt.</u> 24.0# 11.6#	Grade WC-50 N-80
Tubing	Program:	0' – 7450'	2 3/8"	4.7#	J-55

# BOP Specifications, Wellhead and Tests:

# Surface to TD -

11" 3000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

2" nominal, 3000 psi minimum choke manifold (Reference Figure #3).

# Completion Operations:

6" 3000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams and casing top will be tested to 3000 psi for 15 minutes.

#### Surface to Total Depth:

2" nominal, 3000 psi minimum choke manifold (Reference Figure #3).

### Wellhead:

8 5/8" x 4 ½" x 1 ½" x 1 ½" x 3000 psi tree assembly.

#### General:

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper Kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- A BOP pit level drill will be conducted weekly for each drilling crew.
- All of the BOP tests and drills will be recorded in the daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

# Cementing:

8 5/8" surface casing --

Cement to surface w/265 sx Class "B" cement w/3% calcium chloride and ¼#/sx cellophane flakes (312 cu. ft. of slurry, 200% excess to circulate to surface).

WOC 8 hr. prior to drilling out surface casing. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

### Production Casing – 4 1/2"

Lead with 700 sx 65/35 Standard Poz w/6% gel, ¼# Flocele, 10# Gilsonite, 3/10% Halad 9, 1/10% HR5 (1.96 yld). Tail w/900 sx 50/50 Standard Poz w/35 Gel, 9/10% Halad9, 2/10% CFR 3, 5# Gilsonite, ¼# Flocele (1.47 yld).

### Alternate Two-stage cement job as follows:

First Stage: Cement to circulate to stage tool @ 5066'. Lead with 700 sx Class "G" 50/50 poz (13#, 1.47 yd) w/3% gel, 0.25 pps Celloflake, 5 pps Gilsonite, 0.25 pps Fluid loss, 0.15% dispersant, 0.1% retarder. WOC 4 hours prior to pumping second stage. (Slurry volume: 1029 cu. ft. Excess slurry: 50%). DV Tool at 5000 ft.

Second Stage: Cement to circulate to surface. Cement with 700 sx Class "G" (12#, 2.9yd) TXI Liteweight cement w/2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Celloflake, 0.2% antifoam. WOC a minimum of 18 hours prior to cleanout. (Slurry volume: 1914 cu. ft. Excess slurry: 50%). Tail w/50 sx Class "B" w/1/4# Flocele (15.6#, 1.18 yd) (Slurry 59 cu. ft., Excess 50%).

Float shoe on bottom. Three centralizers run every other joint above shoe. Thirty-five centralizers - one every 4<sup>th</sup> joint to the base of the Ojo Alamo @ 2448'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2448'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

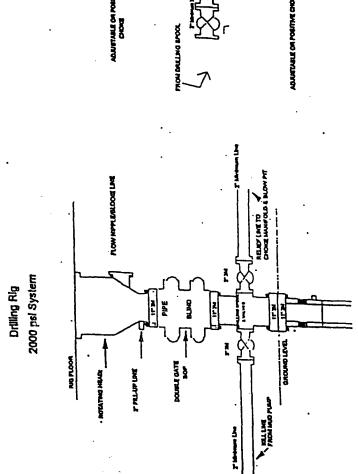
Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

# Additional Information:

The Dakota formations will be completed.

- No abnormal temperatures or hazards are anticipated.
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The west half of the Section 8 is dedicated to this well.
- This gas is dedicated.
- Anticipated pore pressure

Fruitland Coal	300 psi
Pictured Cliffs	500 psi
Mesa Verde	700 psi
Dakota	3000 psi



pressure double gate BOP to be equipped with blind and pipe rams. A sutpping head to be installed on the top of Minimum BOP Installation for all Completion-Workower Operations, 7-1/16" bore, 2000 psl minimum working Completion/Workover Rig BOP Configuration 2,000 psi System TOPE Drilling Rig Choke Manifold Configuration 2000 pel System Choke manifold Installation from Surface Casing Polit la Total Dapth. 2,000psl working pressure Figure #3 equipment with two chokes. ADMITABLE ON POSITIVE CHORD

the BOP. At BOP equipment is 2000 pal working pressure or grester excluding 600 pal stripping her

Figure #1

Figure #2