

RCVD FEB28'07

OIL CONS. DIV.

DIST. 3

Form 3160-3
(February 2005)

2006 AUG 25 PM 12:23

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMSF 078862
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator Huntington Energy, L.L.C.		7. If Unit or CA Agreement, Name and No. Canyon Largo Unit
3a. Address 6301 Waterford Blvd., Suite 400 Oklahoma City, OK 73118		8. Lease Name and Well No. Canyon Largo Unit #491
3b. Phone No. (include area code) (405) 840-9876		9. API Well No. 30-039-30054
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface SEN WNW 1035' FNL & 980' FWL At proposed prod. zone same		10. Field and Pool, or Exploratory Basin Dakota
11. Sec., T. R. M. or Blk. and Survey or Area D Sec 20-25N-6W		12. County or Parish Rio Arriba
13. State NM		14. Distance in miles and direction from nearest town or post office* 35 miles SE from Blanco, NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease 1921.20	17. Spacing Unit dedicated to this well 320 w/2
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 7400'	20. BLM/BIA Bond No. on file NMB0000076
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6696' GR	22. Approximate date work will start*	23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature <i>Catherine Smith</i>	Name (Printed Typed) Catherine Smith	Date 08/23/2006
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Title
Land Associate

Approved by (Signature) <i>Jim Lovato</i>	Name (Printed Typed)	Date 2/23/07
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Title
Acting Asst. Minerals

Office

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 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.

*(Instructions on page 2) *submit application for permit (OCD Form C-103) prior to constructing location 2/28/07*

NOTIFY AZTEC OCD
IN TIME TO WITNESS

*24 hrs
2848ccmanning*

NMOCD

B

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".

3/2/07

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

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

DISTRICT III
1000 Rio Brazos Rd., Artesia, N.M. 87410

DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87506

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87504-2088

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT
RCVD FEB 28 '07

WELL LOCATION AND ACREAGE DEDICATION PLAT OIL CONS. DIV.

*API Number 30-039-30054		*Pool Code 71599, 17610	*Pool Name Basin Dakota, Devils Fork Gallup
*Property Code 6886	*Property Name CANYON LARGO UNIT		*Well Number 491
*OGRD No. 208706	*Operator Name HUNTINGTON ENERGY, LLC		*Elevation 6696'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	20	25-N	6-W		1035'	NORTH	980'	WEST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
*Dedicated Acres W/320					*Joint or Infill		*Consolidation Code		*Order No.

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

FD 3 1/4" B.L.M. BC 1965	1035'	N 88-28-00 E 2638.20' (M)	WITNESS COR. FD 3 1/4" B.L.M. BC 1965 13.20 FT. CALC'D COR.
980'		LAT: 36.38958° N. (NAD 83) LONG: 107.49590° W. (NAD 83)	
S 00-05-51 W 2587.60' (M)			
FD 3 1/4" B.L.M. BC 1965	20		

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

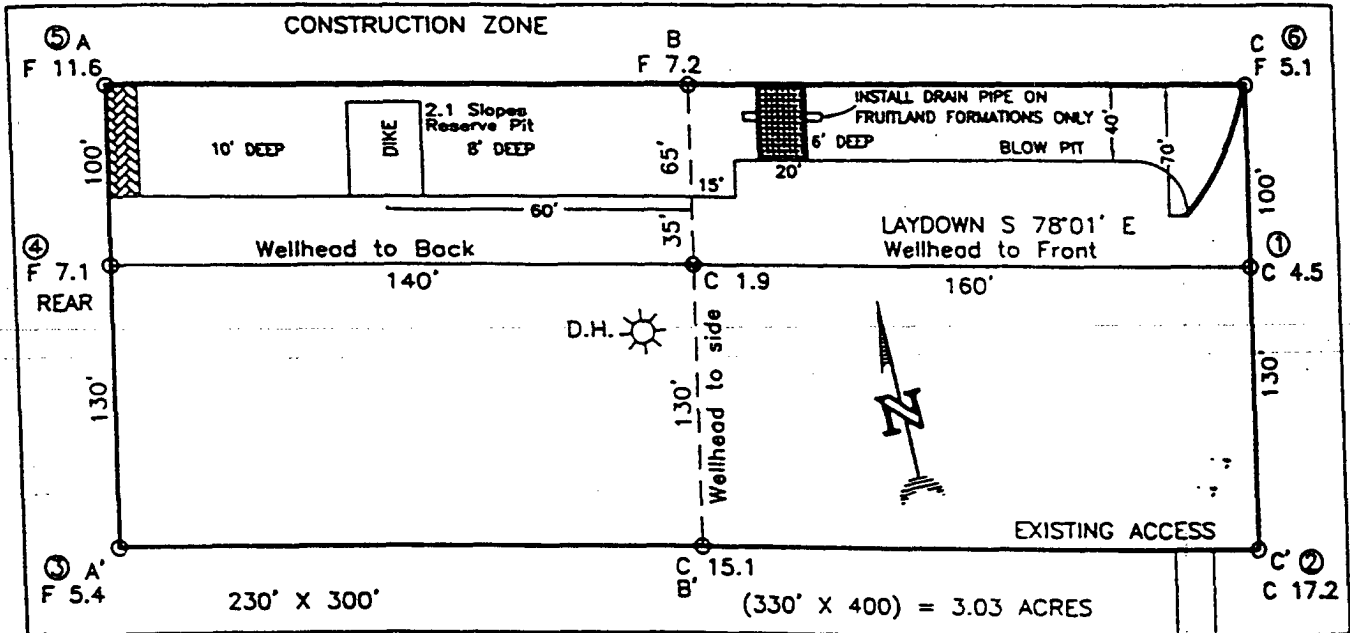
Catherine Smith 6/22/06
Signature Date
Catherine Smith
Printed Name

¹⁸ SURVEYOR CERTIFICATION

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.

MARCH 8 2006
Date of Survey
Signature of Surveyor
JOHN A. TORONCO
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
14831
250
Certificate Number

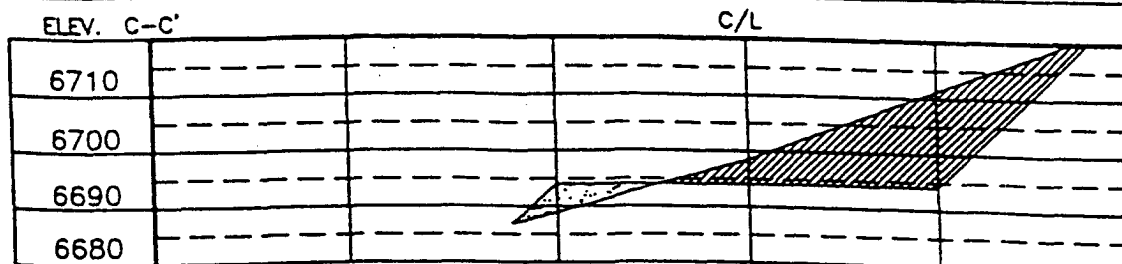
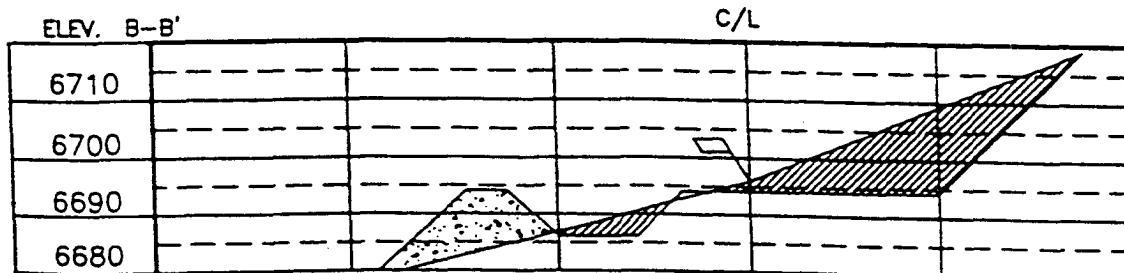
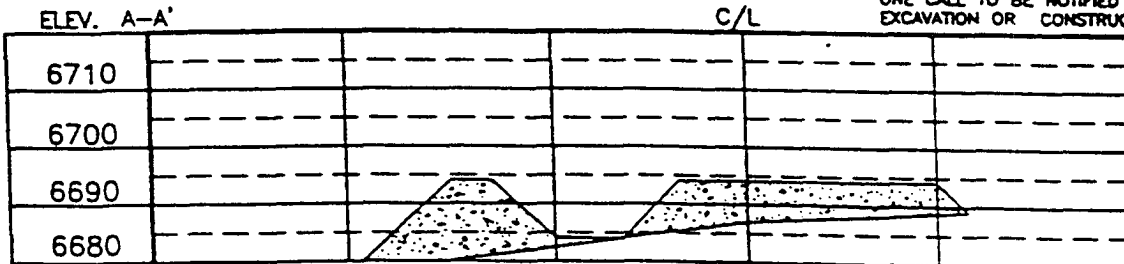
HUNTINGTON ENERGY, LLC
CANYON LARGO UNIT No. 491, 1035 FNL 980 FWL
SECTION 20, T-25-N, R-6-W, N.M.P.M., RIO ARriba COUNTY, NEW MEXICO
GROUND ELEVATION: 6696, DATE: MARCH 8, 2006



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
 BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

NOTE:

DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.



NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

Daggett Enterprises, Inc.
 Surveying and Oil Field Services
 P. O. Box 15068 • Farmington, NM 87401
 Phone (505) 326-1772 • Fax (505) 326-9019
 NEW MEXICO P.L.S. No. 14831
 DOWNS: HTO001C78
 DATE: 6/21/06



Drawn by A.G.
 Rev'd: HTO001

OPERATIONS PLAN

Well Name: Canyon Largo Unit #491
Location: 1035' FNL, 980' FWL, NWNW Sec 20, T-25-N, R-6-W NMPM
Rio Arriba County, NM
Formation: Basin Dakota
Elevation: 6696' GL

<u>Formation Tops:</u>	<u>MD</u>	<u>TVDSS</u>
Ojo Alamo	1885'	4827'
Kirkland	2130'	4582'
Fruitland	2345'	4367'
Pictured Cliffs	2603'	4109'
Lewis Shale	2694'	4018'
Huerfanito	2981'	3731'
Chacra	3447'	3265'
Cliff House	4171'	2541'
Menefee	4248'	2464'
Point Lookout	4840'	1872'
Mancos	5075'	1637'
Niobrara	6007'	705'
Greenhorn	6803'	-91'
Graneros	6868'	-156'
Dakota	6912'	-200'
Morrison	7230'	-518'
TD	7400'	-688

Logging Program:

Mud log – 5900' to TD
Open hole logs – none
Cased hole logs – RST – TD to 5900'; CBL/GR – TD to 5800'
Cores & DST's – none

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0 – 320'	Spud	8.4-8.9	40-50	no control
320 – 7400'	LSND	8.4-9.0	40-60	8-12

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

Casing Program:

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' – 320'	8 5/8"	24.0#	WC-50
7 7/8"	0' – 7400'	4 1/2"	11.6#	N-80

Tubing Program:

0' – 7400'	2 3/8"	4.7#	J-55
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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. *BOP*

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 1/2" x 1 1/2" x 1 1/2" 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 1/4#/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, 1/4# 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, 1/4# 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 4th 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.

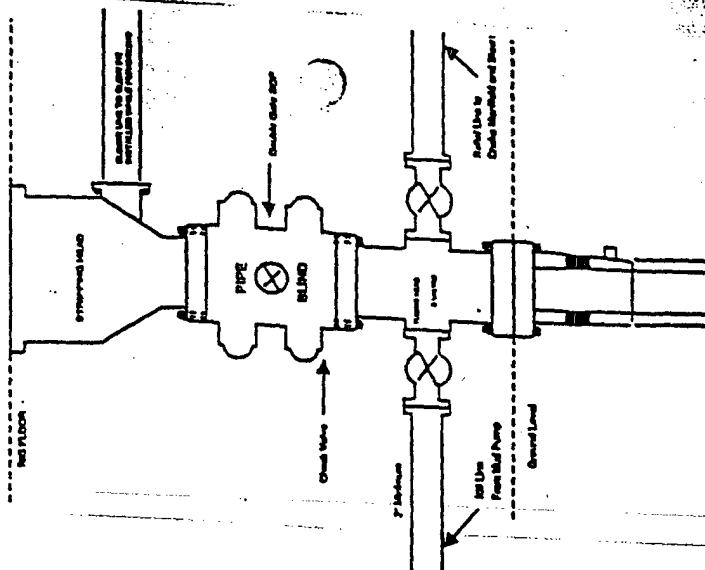
Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Additional Information:

- The Dakota formation will be completed. If Dakota is non-commercial, an attempt will be made to complete in the Gallup. If successful, it will be in the Basin Mancos.
- 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 20 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

Completion/Workover Rig BOP Configuration 2,000 psi System

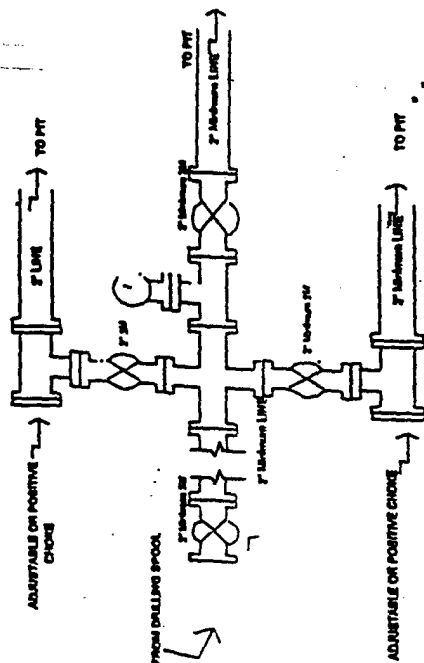


Minimum BOP Installation for all Completion/Workover Operations. 7-1/16" bore, 2000 psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All BOP equipment is 2000 psi working pressure or greater excluding 500 psi stripping head.

Figure #2

4-20-01

Drilling Rig Choke Manifold Configuration 2000 psi System

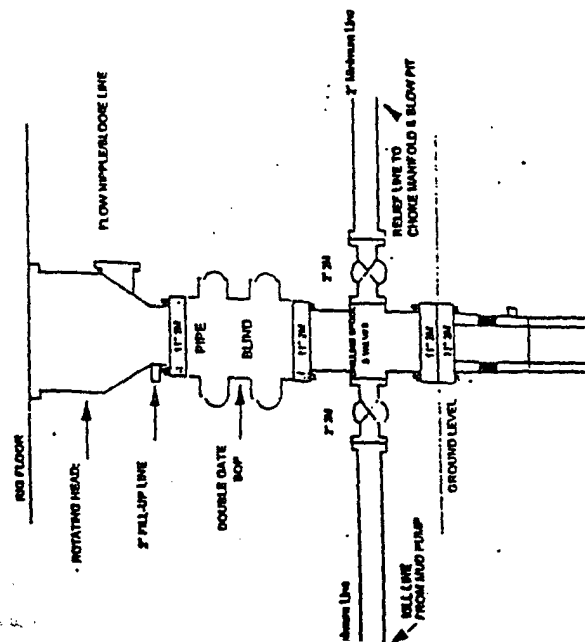


Choke manifold Installation from Surface Casing Point to Total Depth. 2,000psi working pressure equipment with two chokes.

Figure #3

4-20-01

Drilling Rig 2000 psi System



BOP Installation from Surface Casing Point to Total Depth. 11" Bore 10" Nominal, 2000 psi working pressure double gate BOP to be equipped with blind rams and pipe rams. A 500 psi stripping head on top of ram preventers. All BOP equipment is 2,000 psi working pressure

Figure #1