

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

2007 APR 27 09 10 AM '07

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input checked="" type="checkbox"/> REENTER <i>Deepen</i>		5. Lease Serial No. NMSF 078875
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" 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 908 N.W. 71st St. Oklahoma City, OK 73116		8. Lease Name and Well No. Canyon Largo Unit #343
3b. Phone No. (include area code) (405) 840-9876		9. API Well No. 30-039-23386
4. Location of Well (Report location clearly and in accordance with any State requirements *) At surface NESW, 1650' FSL & 1850' 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 K Sec 29-25N-6W		12. County or Parish Rio Arriba
13. State NM		14. Distance in miles and direction from nearest town or post office* 10 miles North of Lybrook
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1650'	16. No. of acres in lease Unit	17. Spacing Unit dedicated to this well 320 <i>wp</i>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1000'	19. Proposed Depth 7000'	20. BLM/BIA Bond No. on file NMB000076
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6773' GL	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:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. 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 04/24/2007
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Title  
Land Associate

Approved by (Signature) Original Signed: Stephen Mason	Name (Printed/Typed)	Date MAY 14 2007
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Title  
*Original Signed: Stephen Mason*

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)

HOLD 6104 FOR *Cancellation of APP for CLU#*  
(30-039-30038) 493

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4

*File pit permit application  
w/ OGD prior to starting project*

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

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

NMOCD

5/16/07

**District I**

1625 N. French Dr., Hobbs, NM 88240

**District II**

1301 W. Grand Avenue, Artesia, NM 88210

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410

**District IV**

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

## State of New Mexico

Energy, Minerals &amp; Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

RECEIVED

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-23386		<sup>2</sup> Pool Code 71599	<sup>3</sup> Pool Name Basin Dakota
<sup>4</sup> Property Code 32660	<sup>5</sup> Property Name Canyon Largo Unit		<sup>6</sup> Well Number 343
<sup>7</sup> OGRID No. 208706	<sup>8</sup> Operator Name Huntington Energy, L.L.C.		<sup>9</sup> Elevation 6773' GL

<sup>10</sup> Surface Location

UL or lot no. K	Section 29	Township 25N	Range 6W	Lot Idn	Feet from the 1650	North/South line South	Feet from the 1850	East/West line West	County Rio Arriba
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<sup>11</sup> 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
								RCVD MAY 16 '07	
OIL CONS. DIV.									
DIST. 3									

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.

<sup>16</sup> 	<sup>17</sup> 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 unleased 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.  Signature Date 4/4/2007 Catherine Smith Printed Name	
	<sup>18</sup> 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. 1/24/84 Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number 1760	

## OPERATIONS PLAN

Well Name: Canyon Largo Unit #343 – Deepening

Location: 1650' FSL, 1850' FWL, NESW Sec 29, T-25-N, R-6-W NMPM  
Rio Arriba County, NM

Formation: Basin Dakota

Elevation: 6773' GL; 6785' KB

<u>Formation Tops:</u>	<u>MD</u>	<u>TVDSS</u>
Greenhorn	6824'	-40
Graneros	6887'	-103
Dakota	6928'	-144
Morrison	7231'	-447
TD	7350'	

Logging Program:

Open Hole – Induction Density Neutron  
Cased Hole – CBL TD to 4500'  
Cores - none

Mud Program:  
Air/Mist

<u>Existing Casing:</u>	<u>Hole Sz</u>	<u>Depth Set</u>	<u>Csg Sz</u>	<u>Sx of Cmt</u>
	12 ¼"	308'	8 ⅝"	210
	7 ⅞"	6415'	4 ½"	789

Production Tubing:  
Set at 7350' (TOC at 5100'). See attached Procedure & proposed Wellbore Diagram.

BOP Specifications, Wellhead and Tests:  
Surface to TD –  
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 & 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).

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.
- The west half of the Section 29 is dedicated to this well.
- This gas is dedicated.
- All of the BOP tests and drills will be recorded in the daily drilling reports.

# Huntington Energy, L.L.C.

908 N.W. 71 ST Street,  
Oklahoma City, OK 73116  
(405) 840-9876 & Fax # (405) 840-2011

## Canyon Largo Unit #343 Procedure

Sec. 29-25N-6W  
Rio Arriba Co., New Mexico

### Surface Casing:

8<sup>5</sup>/<sub>8</sub>" csg set at 308'. Cement to surface w/210 sx cmt.

### Production Casing:

4<sup>1</sup>/<sub>2</sub> 11.6# set at 6416'. Cement 1<sup>st</sup> stage via shoe w/209 sx 'B', 2<sup>nd</sup> stage via stage tool at 5381' cemented w/310 sx 'B', 3<sup>rd</sup> stage via stage tool at 2776' cemented w/270sks'B', Estimated top of cement is 1500'.

### Gallup Perfs:

5140, 5203,  
5224, 5273,  
5575, 5668,  
5709, 5738,  
5768, 5783,  
5948, 5988,  
6027, 6042,  
6080, 6092,  
6112, 6132,  
6148, 6170,  
6180, 6210,  
6225, 6237,  
6246, 6267, 6280, 6291, 6320, 6334

### Deepening Procedure:

- 1.) MIRU WOR. ND tree NU BOP.
- 2.) TOO H w/2<sup>3</sup>/<sub>8</sub> 4.7 EUE 8rd tbg. 6357'.
- 3.) PU 37/8" bit 6-3<sup>1</sup>/<sub>8</sub> Drill & 2<sup>3</sup>/<sub>8</sub> work string. TIH to PBTD at 6374'.
- 4.) RU air unit. Est cir and drill out shoe from 6374 to 6414'. Drill and dust 3 7/8" hole to total depth of ±7400'. Blow hole dry. TOO H w/bit & BHA on 2<sup>3</sup>/<sub>8</sub> work string. Note: drilling operations will be conducted w/N2 and/or N2 mist.
- 5.) PU & TIH w/2<sup>3</sup>/<sub>8</sub> 4.7 EUE 8rd N-80 & float equip.
- 6.) MIRU pump company. Cement tubing in open hole w/recommended slurry.
- 7.) RD & rel rental equip. WOL.
- 8.) Commence completion procedure.

Cement w/10 bbls chem wash, 150 sks Class "G" 50/50/1% gel, .1% HR5, .2% Halad 344, .2% CFR3, 5#/sk Gilsonite, ¼# Polyflake. Mixed @ 13.5ppg, yield = 1.31 cf/sk, water = 5.22 gal/sk. Estimate TOC @ 5000'.

# Canyon Largo Unit #343

*Proposed*

Rio Arriba County, NM

29 - 25N - 6W

1650 FSL 1850 FWL

Spud: April 9, 1984

Completed: June 19, 1984

API: 3003923386

## Current Tops:

Ojo Alamo @ 1920'

Kirtland @ 2040'

Fruitland @ 2390'

Pictured Cliffs @ 2588'

Chacra @ 3434'

Mesa Verde @ 4137'

Menefee @ 4210'

Point Lookout @ 4844'

Mancos @ 5111'

Gallup @ 5979'

## Perfs

5140, 5203, 5224, 5273

5575, 5668, 5709, 5738,

5768, 5783, 5948, 5988,

6027, 6042, 6080, 6092

6112, 6132, 6148, 6170,

6180, 6210, 6225, 6237,

6246, 6267, 6280, 6291,

6320, 6334

KB: 6785'

DF: 6773'

Hole size 12-1/4"

8-5/8" 24# csg @308' w/210 sx cmt

TOC @ 1500'

## Proposed Tops:

Greenhorn @ 6824'

Graneros @ 6887'

Dakota @ 6928'

Morrison @ 7231'

Est TOC @ 5100'

2-3/8" tbg 4.7# at 7400' back to surface

Hole size 7-7/8"

4-1/2" 11.6# csg @ 6415'

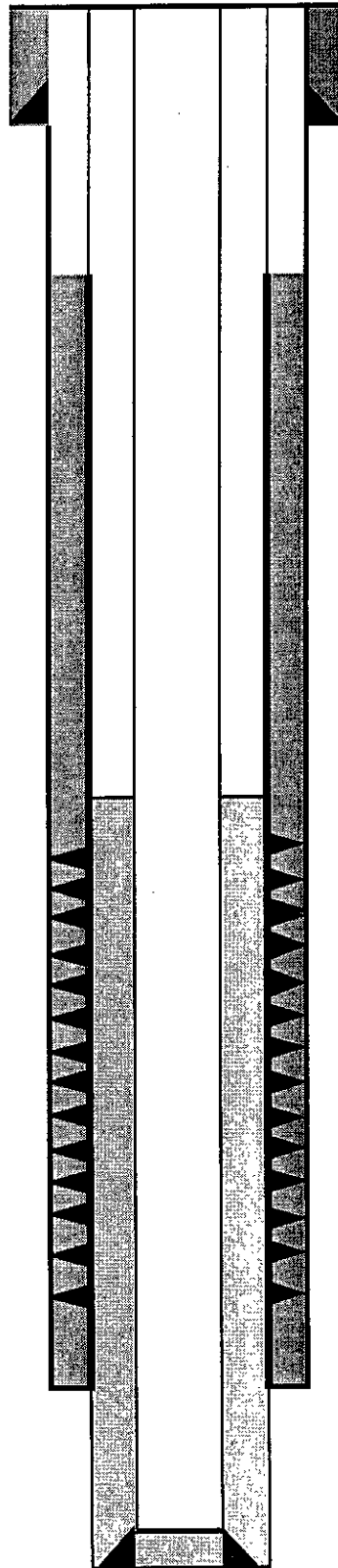
lead w/ 209 sx cmt Class B

tail w/ 310 sx Class B

and 270 sx Class B%

TOC: 1500'

STG Tools @ 5380' & 2775'



TD: 7400'

# Canyon Largo Unit #343

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Rio Arriba County, NM

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1650 FSL 1850 FWL

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6180, 6210, 6225, 6237,

6246, 6267, 6280, 6291,

6320, 6334

2-3/8" tbg 4.7#at 6335'

Hole size 7-7/8"

4-1/2" 11.6# csg @ 6415'

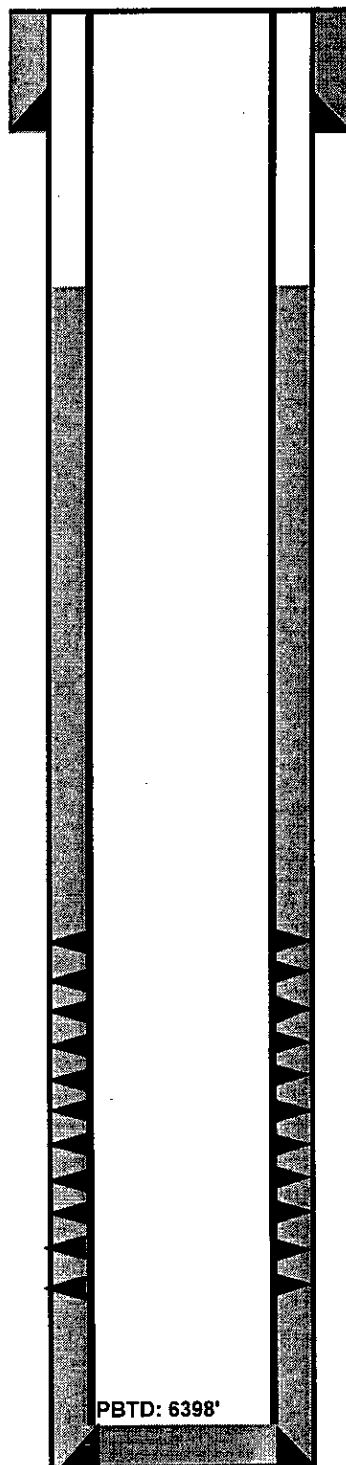
lead w/ 209 sx cmt Class B

tail w/ 310 sx Class B

and 270 sx Class B%

TOC: 1500'

STG Tools @ 5380' & 2775'

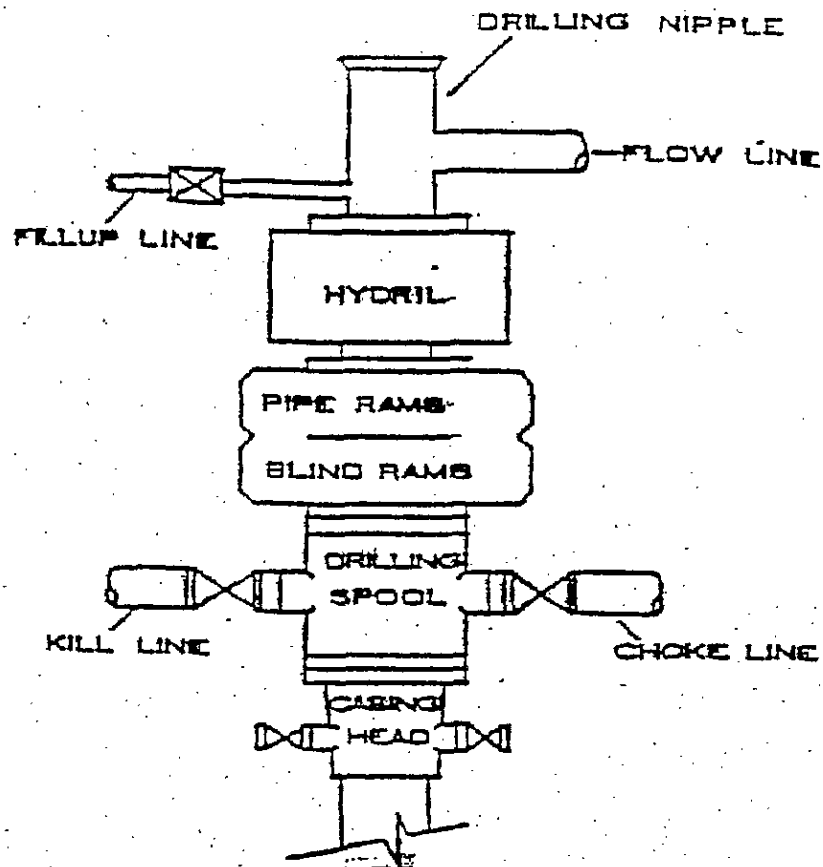


PBTD: 6398'

TD @ 6416'

# HUNTINGTON ENERGY, L.L.C.

## BOP STACK 3000 PSI



## CHOKE MANIFOLD

