

STATE OF LOUISIANA  
OFFICE OF CONSERVATION  
APPLICATION FOR PERMIT TO DRILL FOR MINERALS

FEE. \$1264

SERIAL NO. 243657  
API 17081213520000

Approval Date 08/09/2011  
Expiration Date 02/04/2012

41 PARISH RED RIVER  
9803 FIELD WOODARDVILLE  
E165 OPERATOR ENCANA OIL & GAS (USA) INC.  
14001 N. DALLAS PARKWAY  
STE. 1000  
DALLAS, TX 75240- 0000

HORIZONTAL

SHREVEPORT DISTRICT

WELL NAME: HA RA SU55;O B MADDEN 7- 18 HC

NO. 001- ALT

LOCATION OF WELL: SEC 007 T 14N R 10W M W

2122' FSL & 1060' FWL OF SEC 7. PBHL: 440' FWL & 330' FSL OF SEC 18.

ZONE OR RESERVOIR OF PROPOSED COMPLETION: HAYNESVILLE

Measured Depth 22000

True Vertical Depth 12000

APPLICABLE OFFICE OF CONSERVATION ORDERS: 29B- 1

JAMES H. WELSH

JEFF WELLS

COMMISSIONER OF CONSERVATION

ISSUING AUTHORITY

BATON ROUGE OFFICE

**STATE OF LOUISIANA**  
**OFFICE OF CONSERVATION FORM MD-10-R-1**  
**APPLICATION FOR PERMIT TO DRILL FOR MINERALS**  
**TYPE ONLY - FILE IN DUPLICATE**

(Print on Buff color paper)

OFFICE USE ONLY

OFFICE USE ONLY

*No Bond, 29 B-1, cc 51**Horiz*

SERIAL NUMBER:

*243657*

Company Data

DATE OF APPLICATION: *08/01/2011*OPERATOR: EnCana Oil & Gas (USA) Inc.CODE NO. E165ADDRESS: 14001 N Dallas Parkway; STE 1000Dallas, TX 75240

Well Data

PARISH: RED RIVERCODE NO. 41FIELD: WOODARDVILLECODE NO. 9803WELL NAME: HA RA SU55; O B MADDEN 7-18HCWell No.: 001-ALTLOCATION: Section: 7 Township: 14N Range: 10W

SL: 2122' FSL & 1060' FWL OF S7, T14N, R10W  
 PROP BHL: 440' FWL & 330' FSL OF S18, T14N, R10W

PRODUCT: ☐ OIL☒ GAS☐ OTHER

TYPE OF WELL

☒ New Well☐ Redrill☐ Repermit☐ Dual☒ Horizontal☐ Lease☒ Unit☐ Straight☐ DirectionalProposed Total Depth: 22000 feet - Measured Depth(and TVD, if applicable) 12000 feet - True Vertical DepthApplication Fee: 1264.00 Check No.: 7273556 Month ☒ 1 Year ☐

PROPOSED ZONE OF COMPLETION:

HAYNESVILLE RES A

APPLICABLE CONSERVATION ORDERS:

29B; 990-D-55 EFF 3/22/11

SERIAL NUMBER OF REDRILL OR REPERMIT (if applicable): \_\_\_\_\_

CONTACT DATA

SEND PERMIT TO:

Sharon Cook

ADDRESS:

(if different than above)

FOR ADDITIONAL

INFORMATION, CONTACT:

Phone No.:

(214)987-7174**RECEIVED***AUG 04 2011***OFFICE OF CONSERVATION****PERMIT SECTION**

APPLICANT

SUBMITTED BY: Sharon Cook Regulatory Advisor

TYPED NAME AND TITLE

SIGNATURE: *Sharon Cook*

APPLICANT'S REPRESENTATIVE SIGNATURE

OFFICE USE ONLY

FINANCIAL SECURITY REQUIRED PRIOR TO PERMITTING:

☐ Yes☒ No

DISTRICT APPROVAL:

ISSUED BY:

API No.:

*170812/352*DATE: *8-3-11*DATE: *8/9/11*Exp.: *2-4-12*

STATE OF LOUISIANA  
OFFICE OF CONSERVATION

August 3, 2011

TO: Baton Rouge Office  
FROM: Shreveport District Office  
ATTN: Permit Section

Enclosed herewith please find application from ENCANA OIL & GAS  
(USA) INC. (E165) DALLAS, TX for permit to DRILL

their HA RA SU55;O B MADDEN 7-18-HC # 1-ALT

WOODARDVILLE field, RED RIVER Parish.

Also enclosed please find: Invoice Number 589147  
Check No. 717355 in the amount of \$ 1264.00

XX Well location plat  
XX Well location certification  
       Packer setting certification  
       Packer leakage certification  
       Form ADC  
       Electric Log  
       Schematic diagram

Applicable Office of Conservation Order Nos. 29-B; 990-D-55

Remarks & Recommendations:

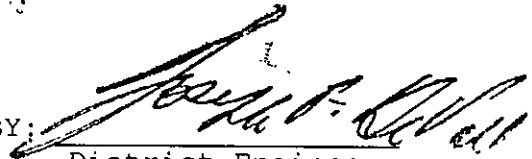
- \*This is a Cross Unit horizontal well.
- \*Complies with 990-D-55, effective 03/22/11.
- \*Well spacing set in 990-D at 330'/660'.
- \*Order No. 990-D-55 requires cross unit lateral be perforated no closer than 330' from unit boundary they are designated to serve as an alternate unit well.

RECEIVED

AUG 04 2011

OFFICE OF CONSERVATION  
PERMIT SECTION

BY:

  
District Engineer

## Well Summary

Permit :

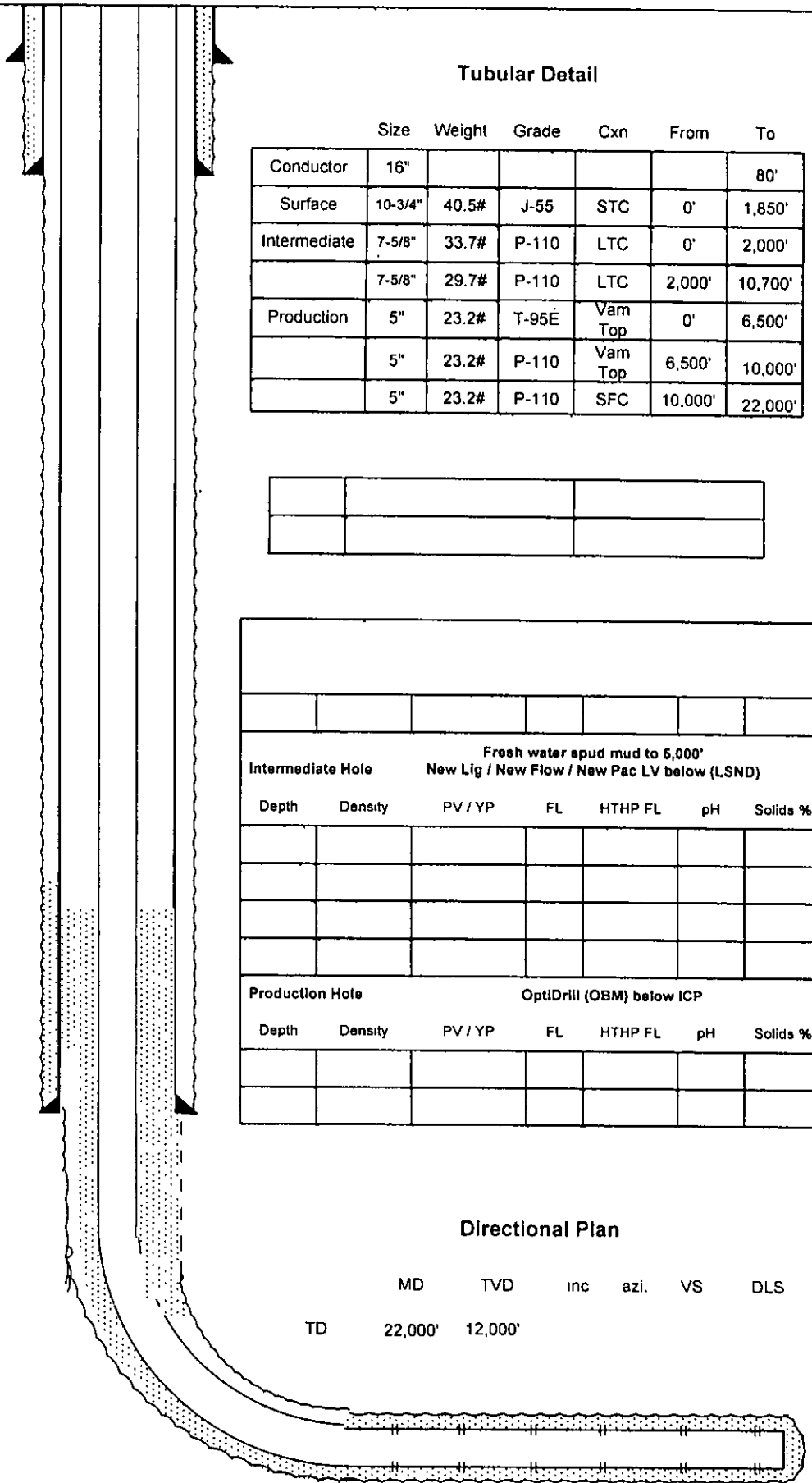


13-1/2"		
9-7/8"	Surface Casing	1850'
	TOC at 9,000' (7-5/8")	
	TOC at 9,000' (5")	
6-1/2"	Inter. Casing	10,700'

	Size	Weight	Grade	Cxn	From	To
Conductor	16"					80'
Surface	10-3/4"	40.5#	J-55	STC	0'	1,850'
Intermediate	7-5/8"	33.7#	P-110	LTC	0'	2,000'
	7-5/8"	29.7#	P-110	LTC	2,000'	10,700'
Production	5"	23.2#	T-95E	Vam Top	0'	6,500'
	5"	23.2#	P-110	Vam Top	6,500'	10,000'
	5"	23.2#	P-110	SFC	10,000'	22,000'


Fresh water spud mud to 5,000' New Lig / New Flow / New Pac LV below (LSND)						
Intermediate Hole	Depth	Density	PV / YP	FL	HTHP FL	pH Solids %
OptiDrill (OBM) below ICP						
Production Hole	Depth	Density	PV / YP	FL	HTHP FL	pH Solids %

	MD	TVD	inc	azi.	VS	DLS
TD	22,000'	12,000'				



243657

Notes: All Bearings, Distances, and Coordinates shown hereon are based on the Louisiana State Plane Coordinate System, N A D. 27 Datum, North Zone  
There are no Residential or Commercial Structures within 500' of Proposed Location.  
Proposed SURFACE Location is located 2122 feet from the south line and 1060 feet from the West line of Section 7, Township 14 North - Range 10 West, Red River Parish, Louisiana.  
Proposed BOTTOM HOLE Location is located 440 feet from the West line and 330 feet from the South line of Section 18, Township 14 North - Range 10 West, Red River Parish, Louisiana.  
Proposed PERFORATION POINT is located 2335 feet from the South line and 421 feet from the West line of Section 7, Township 14 North - Range 10 West, Red River Parish, Louisiana  
Proposed I.C.P. is located 2544 feet from the North line and 423 feet from the West line of Section 7, Township 14 North - Range 10 West, Red River Parish, Louisiana.

**PROPOSED  
SURFACE LOCATION**

LAT: 32.212842  
LON: -93.438072  
X: 1,709,874  
Y: 563,676  
Elev: 137'

**PROPOSED  
I.C.P.**

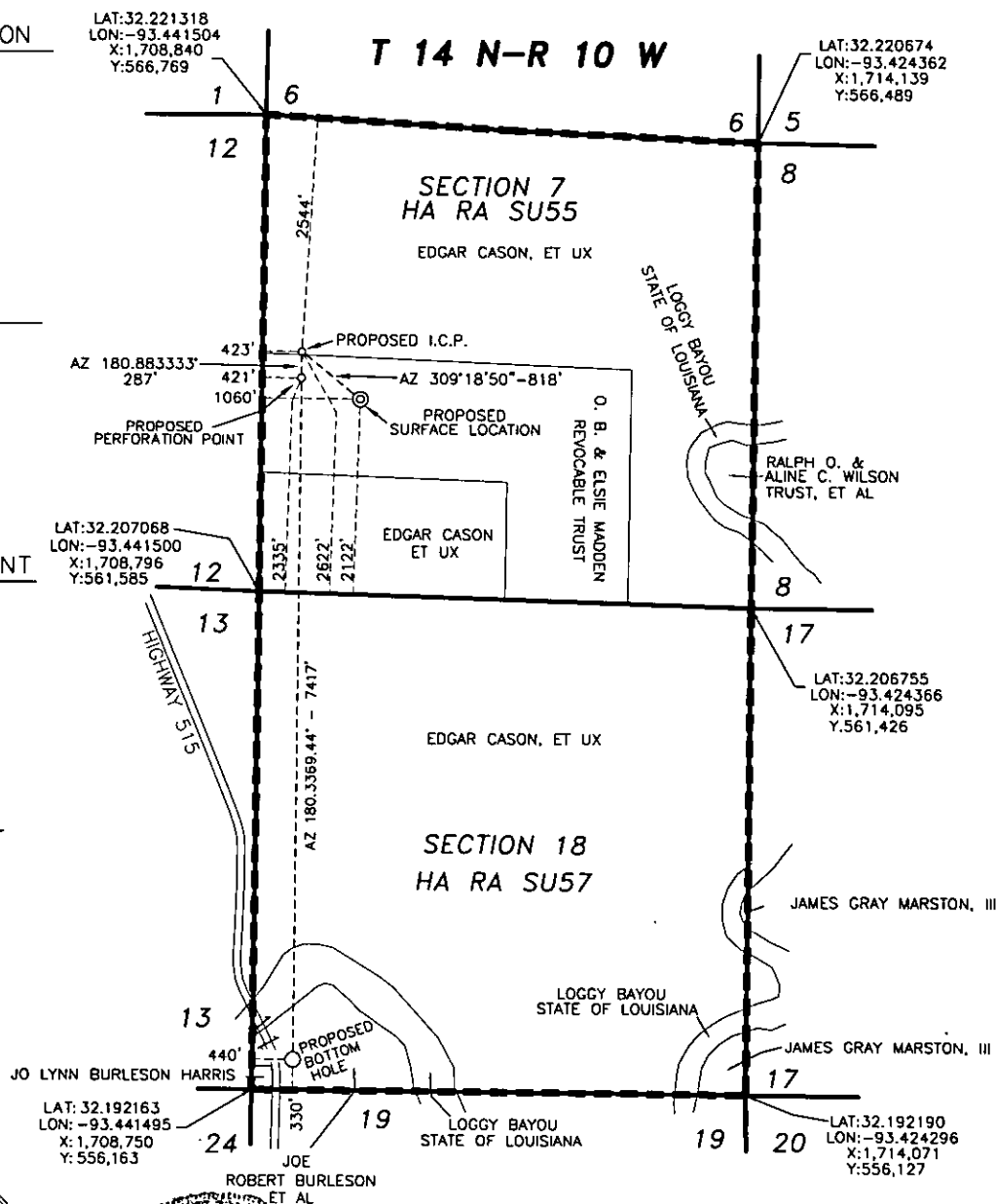
LAT: 32.214252  
LON: -93.440134  
X: 1,709,241  
Y: 564,195

**PROPOSED  
PERFORATION POINT**

LAT: 32.213463  
LON: -93.440140  
X: 1,709,237  
Y: 563,908

**PROPOSED  
BOTTOM HOLE**

LAT: 32.193073  
LON: -93.440073  
X: 1,709,193  
Y: 556,490



**STANGER**  
SURVEYING TYLER, LLC  
1595 E. Grande Blvd.  
Tyler, TX 75703  
(903) 534-0174

I, John R. Nowlin, Registered Professional Land Surveyor, do hereby certify that the above plat is true and correct to the best of my knowledge.

Registered Professional Land Surveyor No. 4801  
State of Louisiana

7-27-2011

**WELL LOCATION PLAT  
ENCANA OIL & GAS (USA) INC.  
HA RA SU55; O B MADDEN 7-18HC-1 ALT  
RED RIVER PARISH, LOUISIANA  
SCALE: 1" = 2000'**

THIS WELL IS NOT SUBJECT TO THE  
PROVISIONS OF ORDER U-HS

T101107-LOC-7-18-1 ALT-RR