

Oklahoma Corporation Commission  
Oil & Gas Conservation Division  
Post Office Box 52000  
Oklahoma City, Oklahoma 73152-2000  
Rule 165: 10-3-25

Form 1002A

API No.: 35043234710001

**Completion Report**

Spud Date: July 31, 2016

OTC Prod. Unit No.: 043-217885

Drilling Finished Date: August 25, 2016

1st Prod Date: September 29, 2016

Completion Date: September 27, 2016

**Amended**

Amend Reason: CORRECTED PRODUCTION UNIT NUMBER / NEW INITIAL TEST / SHOW  
INITIAL SHUT-IN PRESSURE

**Drill Type: HORIZONTAL HOLE**

Well Name: BIG HUNK 7-1H

Purchaser/Measurer: ONEOK

Location: DEWEY 7 17N 15W  
NE SW SE SW  
415 FSL 1925 FWL of 1/4 SEC  
Derrick Elevation: 23 Ground Elevation: 1617

First Sales Date: 10/01/2016

Operator: CARRERA ENERGY LLC 23514  
PO BOX 5036  
901 W MISSOURI AVE  
MIDLAND, TX 79704-5036

Completion Type		Location Exception		Increased Density	
X	Single Zone	Order No		Order No	
	Multiple Zone	655581		There are no Increased Density records to display.	
	Commingled				

Casing and Cement								
Type		Size	Weight	Grade	Feet	PSI	SAX	Top of CMT
CONDUCTOR		24	63.5	H	120			SURFACE
SURFACE		9 5/8	36	J	1530		515	SURFACE
PRODUCTION		7	29	P	11257		930	6230

Liner								
Type	Size	Weight	Grade	Length	PSI	SAX	Top Depth	Bottom Depth
LINER	4 1/2	11.6	P	5228	0	400	10342	15570

**Total Depth: 15572**

Packer		Plug	
Depth	Brand & Type	Depth	Plug Type
10437	ARROW SET 1X	There are no Plug records to display.	

Initial Test Data
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Test Date	Formation	Oil BBL/Day	Oil-Gravity (API)	Gas MCF/Day	Gas-Oil Ratio Cu FT/BBL	Water BBL/Day	Pumpin or Flowing	Initial Shut-In Pressure	Choke Size	Flow Tubing Pressure
Sep 30, 2016	MERAMEC	61	51.2	1771	40705	2182	FLOWING	2850	24/64	2590
Dec 01, 2016	MERAMEC	61		3659	59612	1204	FLOWING		30/64	1625
Jan 21, 2017	MERAMEC	62	56.1	3889	62726	1497	FLOWING	2850	64/64	400

**Completion and Test Data by Producing Formation**

Formation Name: MERAMEC

Code: 353MRMC

Class: GAS

**Spacing Orders**

Order No	Unit Size
113812	

**Perforated Intervals**

From	To
11231	15549

**Acid Volumes**

41,050 GALLONS
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**Fracture Treatments**

2,158,500 POUNDS 100 MESH, 5,259,000 POUNDS 40/70, 273,619 BARRELS LOAD
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Formation	Top
HEEBNER HS	6612
DOUGLAS SAND	6672
TONKAWA HS	7016
AVANT	7670
COTTAGE GROVE	7662
HOGSHOOTER	8008
BIG LIME	8556
OSWEGO	8575
CHEROKEE HS	8734
RED FORK	9060
INOLA	9168
ATOKA	9334
MORROW	9794
CHESTER	10134
MERAMEC MUD LOG	11052

Were open hole logs run? Yes

Date last log run: August 12, 2016

Were unusual drilling circumstances encountered? No

Explanation:

**Other Remarks**

OCC - THIS DOCUMENT IS ACCEPTED BASED ON THE DATA SUBMITTED THE FINAL LOCATION EXCEPTION HAS NOT BEEN SUBMITTED.

**Lateral Holes**

Sec: 7 TWP: 17N RGE: 15W County: DEWEY

NE NW NE NW

200 FNL 1874 FWL of 1/4 SEC

Depth of Deviation: 10534 Radius of Turn: 408 Direction: 360 Total Length: 4687

Measured Total Depth: 15572 True Vertical Depth: 11125 End Pt. Location From Release, Unit or Property Line: 200

## FOR COMMISSION USE ONLY

1135767

Status: Accepted

# RECEIVED

JAN 26 2017

Form 1002A  
Rev 2009

OKLAHOMA CORPORATION  
COMMISSION

API NO. **35 043 23471**  
OTC PROD UNIT NO. **043217885**

PLEASE TYPE OR USE BLACK INK ONLY  
NOTE:

Attach copy of original 1002A  
if recompletion or reentry.

OKLAHOMA CORPORATION COMMISSION  
Oil & Gas Conservation Division  
Post Office Box 52000  
Oklahoma City, Oklahoma 73152-2000  
Rule 165-10-3-25

☐ ORIGINAL  
☒ AMENDED (Reason)

**Corrected - Pin new initial test**  
**SNOW Initial Shut in pressure**

COMPLETION REPORT

TYPE OF DRILLING OPERATION

☐ STRAIGHT HOLE ☐ DIRECTIONAL HOLE ☒ HORIZONTAL HOLE

If directional or horizontal, see reverse for bottom hole location.

SPUD DATE **7-31-2016**

ORLG FINISHED DATE **8-25-2016**

DATE OF WELL COMPLETION **9-27-2016**

1st PROD DATE **9-29-2016**

RECOMP DATE

COUNTY **Dewey** SEC **07** TWP **17N** RGE **15W**

LEASE NAME **Big Hunk** WELL NO **7-1H**

NE 1/4 SW 1/4 SE 1/4 SW 1/4 FSL OF 1/4 SEC **415** FWL OF 1/4 SEC **1925**

ELEVATIO N Derrick **23** Ground **1617** Latitude (if known) **35° 57' 28.1" N**

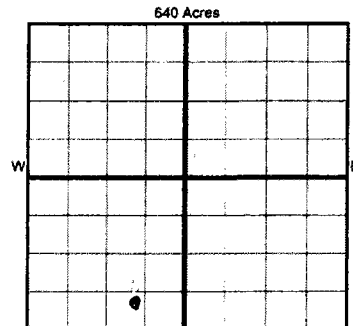
Longitude (if known) **98° 50' 32.6" W**

OPERATOR NAME **Carrera Energy, LLC**

OTC/OCC OPERATOR NO. **23514**

ADDRESS **901 Missouri,**

CITY **Midland** STATE **Texas** ZIP **79701**



COMPLETION TYPE

☒ SINGLE ZONE  
☐ MULTIPLE ZONE  
Application Date  
☐ COMMINGLED  
Application Date  
LOCATION  
EXCEPTION ORDER **655581 J.O.**  
INCREASED DENSITY  
ORDER NO.

CASING & CEMENT (Form 1002C must be attached)

TYPE	SIZE	WEIGHT	GRADE	FEET	PSI	SAX	TOP OF CMT
CONDUCTOR	24"	63.5	H	120		grout	Surface
SURFACE	9-5/8	36	J	1530		515	Surface
INTERMEDIATE							
PRODUCTION	7"	29	P	11,257		930	6,230
LINER	4 1/2"	11.6	P	10,342-15,570		400	10,342
						TOTAL DEPTH	15,572

PACKER @ **10,437** BRAND & TYPE **Arrow Set 1X** PLUG @

PACKER @ BRAND & TYPE PLUG @

COMPLETION & TEST DATA BY PRODUCING FORMATION

FORMATION	<b>Meramec</b>	<b>353MRMC</b>					
SPACING & SPACING ORDER NUMBER	<b>113812</b>						
CLASS: Oil, Gas, Dry, Inj, Disp, Comm Disp, Svc	<b>Gas</b>						
PERFORATED INTERVALS	<b>15,549-11,231</b>						
	<b>TVD Avg 11,128 ft</b>						
ACID/VOLUME	<b>41,050 gals</b>						
FRACTURE TREATMENT (Fluids/Prop Amounts)	<b>2,158,500 lbs 100 msh</b>						
	<b>5,259,000 lbs 40/70</b>						
	<b>273,619 bbls load</b>						

Min Gas Allowable (165-10-17-7)

OR  
Oil Allowable (165-10-13-3)

Gas Purchaser/Messurer  
First Sales Date

**Onesok**  
**10-1-2016**

INITIAL TEST DATA

INITIAL TEST DATE	<b>9-30-2016</b>	<b>12-1-2016</b>	<b>1-21-2017</b>			
OIL-BBL/DAY	<b>61</b>	<b>61</b>	<b>62</b>			
OIL-GRAVITY ( API)	<b>51.2' Corrected</b>		<b>56.1' corrected</b>			
GAS-MCF/DAY	<b>1771</b>	<b>3,659</b>	<b>3889</b>			
GAS-OIL RATIO CU FT/BBL	<b>40,705/1</b>	<b>59,612/1</b>	<b>62,726 / 1</b>			
WATER-BBL/DAY	<b>2182</b>	<b>1,204</b>	<b>1497</b>			
PUMPING OR FLOWING	<b>Flowing</b>	<b>Flowing</b>	<b>Flowing</b>			
INITIAL SHUT-IN PRESSURE	<b>2850</b>	<b>NA</b>	<b>2850</b>			
CHOKE SIZE	<b>24/64</b>	<b>30/64</b>	<b>64/64</b>			
FLOW TUBING PRESSURE	<b>2590</b>	<b>1625</b>	<b>400</b>			

**AS SUBMITTED**

A record of the formations drilled through, and pertinent remarks are presented on the reverse. I declare that I have knowledge of the contents of this report and am authorized by my organization to make this report, which was prepared by me or under my supervision and direction, with the data and facts stated herein to be true, correct, and complete to the best of my knowledge and belief.

*Richard L. Wright*  
SIGNATURE

**Richard L. Wright**

NAME (PRINT OR TYPE)

**1-23-2017** **432 695 6970**

DATE PHONE NUMBER

**901 Missouri, Midland, Texas 79701**

ADDRESS

CITY

STATE

ZIP

**rwright@carreraenergy.com**

EMAIL ADDRESS

PLEASE TYPE OR USE BLACK INK ONLY  
FORMATION RECORD

Give formation names and tops, if available, or descriptions and thickness of formations drilled through. Show intervals cored or drillstem tested.

NAMES OF FORMATIONS	TOP
Heebner HS	6612
Douglas Sd	6672
Tonkawa HS	7016
Avant	7670
Cottage Grove	7662
Hogshooter	8008
Big Lime	8556
Oswego	8575
Cherokee HS	8734
Red Fork	9060
Inola	9168
Atoka	9334
Morrow	9794
Chester	10,134
Meramec	11,052
Mud Log	

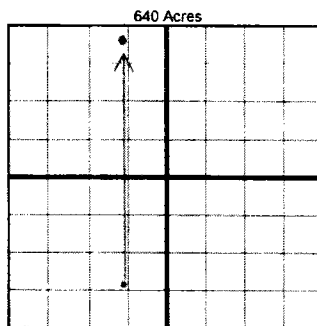
LEASE NAME **Big Hunk**

WELL NO. **7-1H**

FOR COMMISSION USE ONLY	
ITD on file <input type="checkbox"/> YES <input type="checkbox"/> NO	
APPROVED _____	DISAPPROVED _____
2) Reject Codes	
_____	
_____	
_____	
_____	

Were open hole logs run?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Date Last log was run	<b>August 12, 2016</b>
Was CO <sub>2</sub> encountered?	_____ yes <input checked="" type="checkbox"/> no at what depths? _____
Was H <sub>2</sub> S encountered?	_____ yes <input checked="" type="checkbox"/> no at what depths? _____
Were unusual drilling circumstances encountered?	_____ yes <input checked="" type="checkbox"/> no
If yes, briefly explain below	

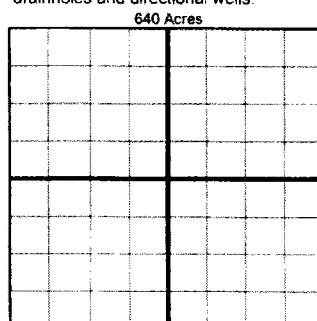
Other remarks:



If more than three drainholes are proposed, attach a separate sheet indicating the necessary information.

Direction must be stated in degrees azimuth.  
Please note, the horizontal drainhole and its end point must be located within the boundaries of the lease or spacing unit.

Directional surveys are required for all drainholes and directional wells.



BOTTOM HOLE LOCATION FOR DIRECTIONAL HOLE

SEC	TWP	RGE	COUNTY
Spot Location	1/4	1/4	1/4
Measured Total Depth	True Vertical Depth	BHL From Lease, Unit, or Property Line:	

BOTTOM HOLE LOCATION FOR HORIZONTAL HOLE: (LATERALS)

LATERAL #1

SEC	TWP	RGE	COUNTY
7	17 N	15 W	Dewey
Spot Location	NE 1/4 NW 1/4 NE 1/4 NW 1/4	Feet From 1/4 Sec Lines	FSL 200' FWL 1874
Depth of Deviation	KOP 10,534	Radius of Turn	408 ft
Measured Total Depth	15,572	True Vertical Depth	11,125 avg
BHL From Lease, Unit, or Property Line: 200' FNL & 1874' FWL			

LATERAL #2

SEC	TWP	RGE	COUNTY
Spot Location	1/4	1/4	1/4
Depth of Deviation	Radius of Turn	Direction	Total Length
Measured Total Depth	True Vertical Depth	BHL From Lease, Unit, or Property Line:	

LATERAL #3

SEC	TWP	RGE	COUNTY
Spot Location	1/4	1/4	1/4
Depth of Deviation	Radius of Turn	Direction	Total Length
Measured Total Depth	True Vertical Depth	BHL From Lease, Unit, or Property Line:	

## Poettman-CarpenterBHP.xls

**Description:** This spreadsheet calculates flowing bottom hole pressure based on tubing head pressure and tubing flow performance using Poettmann-Carpenter Method.

**Instruction:** 1) Select a unit system; 2) Update parameter values in the Input Data section; 3) Click "Solution" button; and 4) View result in the Solution section.

### Input Data:

1

0

Tubing ID:	2.441	in
Wellhead pressure:	1714.4	psia
Liquid production rate:	555	stb/d
Producing gas-liquid ratio (GLR):	4365.77	scf/stb
Water cut (WC):	96	%
Oil gravity:	56.1	°API
Water specific gravity:	1.1	1 for fresh water
Gas specific gravity:	0.5973	1 for air
N <sub>2</sub> content in gas:	0.00471	mole fraction
CO <sub>2</sub> content in gas:	0.01277	mole fraction
H <sub>2</sub> S content in gas:	6E-06	mole fraction
Formation volume factor for water:	1.2	rb/stb
Wellhead temperature:	85	°F
Tubing shoe depth:	11248	ft
Bottom hole temperature:	228	°F

Oil specific gravity =	0.75	1 for fresh water	0.75	1 for fresh water
Mass associated with 1 stb of oil =	14495.78	lb	#####	kg
Solution gas ratio at wellhead =	816.53	scf/stb	145.42	sm <sup>3</sup> /m <sup>3</sup>
Oil formation volume factor at wellhead =	1.37	rb/stb	1.37	rm <sup>3</sup> /m <sup>3</sup>
Volume associated with 1 stb of oil at wellhead =	958.34	cf	27.16	m <sup>3</sup>
Fluid density at wellhead =	15.13	lb/cf	241.79	kg/m <sup>3</sup>
Solution gas-oil ratio at bottom hole =	1491.71	scf/stb	265.66	sm <sup>3</sup> /m <sup>3</sup>
Oil formation volume factor at bottom hole =	1.83	rb/stb	1.83	rm <sup>3</sup> /m <sup>3</sup>
Volume associated with 1 stb of oil at bottom hole =	691.71	cf	19.60	m <sup>3</sup>
Fluid density at bottom hole =	20.96	lb/cf	334.99	kg/m <sup>3</sup>
The average fluid density =	18.04	lb/cf	288.39	kg/m <sup>3</sup>
Inertial force (D <sub>pv</sub> ) =	23.31	lb/day-ft	34.64	kg/day-m
Friction factor =	0.0424		0.04	
Friction term =	169.92	(lb/cf) <sup>2</sup>	43419	(kg/cm) <sup>2</sup>
Error in depth =	-233.63	ft	-766.30	m
Bottom hole pressure =	3815	psia	25.95	MPa

$$M=350.17(\gamma_o+WOR\ \gamma_w)+GOR\ \rho_{air}\gamma_g$$

$$R_s=\gamma_g\left[\frac{p}{18}\frac{10^{0.0125API}}{10^{0.00091t}}\right]^{1.2048}$$

$$B_o=0.971+0.000147\left[R_s\left(\frac{\gamma_g}{\gamma_o}\right)^{0.5}+1.25t\right]^{1.175}$$

$$V_m=5.615(B_o+WOR\ B_w)+(GOR-R_s)\Big(\frac{14.7}{p}\Big)\Big(\frac{T}{520}\Big)\Big(\frac{z}{1.0}\Big)$$

$$(D\rho v)=\frac{1.4737\times10^{-5}Mq_o}{D}$$

$$f_m=4\times10^{1.444-2.5\log(D\rho v)}$$