

OKLAHOMA CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
P.O. BOX 52000  
OKLAHOMA CITY, OK 73152-2000  
(Rule 165:10-3-1)

API NUMBER: 103 24697

Approval Date: 12/30/2014  
Expiration Date: 06/30/2015

Directional Hole Disposal

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 21N Rge: 1W

County: NOBLE

SPOT LOCATION:  S2  S2  SW  SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 220 660

Lease Name: WURTZ

Well No: 21-1-17 SWD

Well will be 220 feet from nearest unit or lease boundary.

Operator Name: DORADO E & P PARTNERS LLC

Telephone: 7204023700; 7204023

OTC/OCC Number: 23019 0

DORADO E & P PARTNERS LLC  
1401 17TH ST STE 1100  
DENVER, CO 80202-1253

PHYLLIS WURTZ & LINDA JACKSON  
8887 S LEWIS AVE  
TULSA OK 74137

Formation(s) (Permit Valid for Listed Formations Only):

Name	Depth	Name	Depth
1 ARBUCKLE	5600	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 7853

Ground Elevation: 1124

**Surface Casing: 260**

Depth to base of Treatable Water-Bearing FM: 160

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: WELLINGTON

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 14-27859

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

DIRECTIONAL HOLE 1

Sec 17 Twp 21N Rge 1W County NOBLE

Spot Location of End Point: SE SW NE SW

Feet From: SOUTH 1/4 Section Line: 1431

Feet From: WEST 1/4 Section Line: 1876

Measured Total Depth: 7853

True Vertical Depth: 7180

End Point Location from Lease,

Unit, or Property Line: 774

Additional Surface Owner

Address

City, State, Zip

DORIS J CRONIN

1704 10TH STREET

PERRY, OK 73077

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Notes:

Category

Description

BOTTOM HOLE

12/30/2014 - G76 - BHL IN 17-21N-1W PER SURVEY PLAT

FRAC FOCUS

12/11/2014 - G71 - THE REQUIREMENT FOR CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS WILL BE EXTENDED TO INCLUDE ALL NON-HORIZONTAL WELLS FOR HYDRAULIC FRACTURING OPERATIONS BEGINNING JANUARY 1, 2014. REFER TO OCC RULE 165:10-3-10 FOR COMPLIANCE REQUIREMENTS. PLEASE REPORT DIRECTLY TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://FRACFOCUS.ORG/) OR FOR OCC ASSISTANCE CONTACT DENNIS NISKERN AT 405-522-2977 OR D.NISKERN@OCCEMAIL.COM

SPACING

12/11/2014 - G71 - N/A - DISPOSAL WELL

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

103 24697 WURTZ 21-1-17 SWD

APT-103-24697



# Well Location Plat

Sec. 17-21N-1W I.M.

DORADO

Operator: DORADO E & P PARTNERS, LLC

Lease Name and No. : WURTZ 21-1-17 SWD

Footage : 220' FSL - 660' FWL PAD ELEVATION : 1124' Good Site? YES

Section: 17 Township: 21N Range: 1W I.M.

County : Noble State of Oklahoma

Alternate Loc. : N/A

Terrain at Loc. : Stake fell on existing white rock pad.

Accessibility : From the West.

Directions : From Interstate 35 & Hwy 64 Jct. in Perry, OK. Go East on Hwy 64 .5 mile to the Southwest Corner of Section 17-21N-1W.



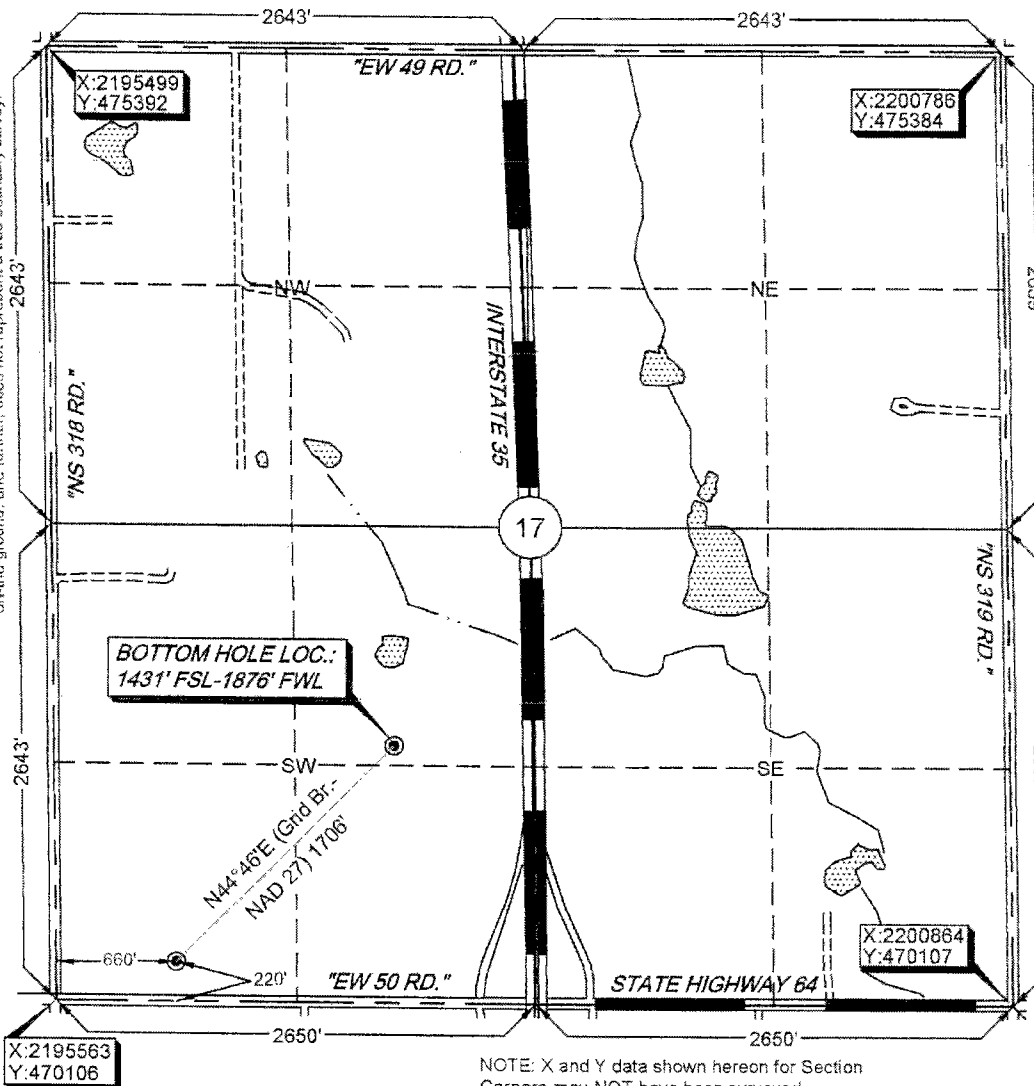
1"=1000'

GPS DATUM  
NAD - 27  
OK NORTH ZONE

Surface Hole Loc.:  
Lat: 36.29022184  
Lon: -97.33420055  
X: 2196220  
Y: 470326

Bottom Hole Loc.:  
Lat: 36.29352656  
Lon: -97.33009536  
X: 2197422  
Y: 471538

Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.



**BOTTOM HOLE LOC.:**  
1431' FSL-1876' FWL

N44°48'E (Grid Br.)  
NAD 27) 1706'

X:2195563  
Y:470106

X:2200864  
Y:470107

NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey.

Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS.

survey and plat by,  
**Arkoma Surveying and Mapping, PLLC**  
P.O. Box 238 Wilburton, OK 74578  
Ph. 918-465-5711 Fax 918-465-5030

Certificate of Authorization No. 5348  
Expires June 30, 2016

Invoice #4656-A  
Date Staked : 06/05/14 By : C.K.  
Date Drawn : 06/09/14 By : E.D.  
Revise SHL : 10/01/14 By : R.M.

### Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

*Stan Drannon* 12/11/14  
STAN DRANNON OK LPLS 1672

