

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

API NUMBER: 103 24686 A

Approval Date: 09/18/2014  
Expiration Date: 03/18/2015

Horizontal Hole Oil & Gas

Amend reason: ADD MISSISSIPPIAN FORMATION & UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 20N Rge: 1W

County: NOBLE

SPOT LOCATION:  NE  NE  NE  NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 175 285

Lease Name: ADAMS 20-1-19

Well No: 1H

Well will be 175 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

JOHN ADAMS  
7901 CHISHOLM  
ORLANDO OK 73073

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	4854	6	
2	WOODFORD	4956	7	
3			8	
4			9	
5			10	

Spacing Orders: 630738

Location Exception Orders: 632513

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 10521

Ground Elevation: 1077

**Surface Casing: 1000**

Depth to base of Treatable Water-Bearing FM: 190

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: 14-27857

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 19 Twp 20N Rge 1W County NOBLE

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 195

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 4500

Radius of Turn: 681

Direction: 360

Total Length: 5253

Measured Total Depth: 10521

True Vertical Depth: 4956

End Point Location from Lease,  
Unit, or Property Line: 195

Notes:

Category	Description
DEEP SURFACE CASING	9/5/2014 - G76 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
LOCATION EXCEPTION - 632513	9/18/2014 - G72 - 19-20N-01W (I.O.) X 630738 MSSP, WDFD, OTHERS; COMP INT. NCT 165 FNL NCT 165 FSL NCT 300 FEL; DORADO E&P PARTNERS, LLC; 11/3/2014
SPACING - 630738	9/18/2014 - G72 - (640 HORZ) 19-20N-01W VAC (E2) 117459 MISS COEXIST (NW & SW 160) 117459** MISS; EXT 624037 MSSP, WDFD, OTHERS; POE TO BHL (WDFD) NCT 330' FB, POE TO BHL (MSSP) NCT 660 FB. ** NPT CORRECTS SPACING TO SHOW 117459 IS 40 AC.

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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.