API NUMBER: 119 24192 A

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

Approval Date:	03/05/2014
Expiration Date:	09/05/2014

Horizontal Hole Oil & Gas

Amend reason: CORRECT WELL NAME

## AMEND PERMIT TO DRILL

ELL LOCATION: Sec: 29 POT LOCATION: SW	Twp: 18N Rge: 4l	E County: PAY  FEET FROM QUARTER: FROM  SECTION LINES:	SOUTH FROM 280	EAST 560			
Lease Name: HILL 29-20 1	8N 4E	Well No:	2WH		Well will be 280 fee	et from nearest unit or lease boundary.	
Operator AMERICAN ENERGY-WOODFORD LLC Name:		DLLC	Telephone: 40	Telephone: 4054188001		OTC/OCC Number: 23358 0	
AMERICAN ENERG	SY-WOODFORD LL	.c		GAIL D. H	ILL REVOCABLE TR	UST	
PO BOX 18756				7909 W 9H	l ST		
OKLAHOMA CITY,	OK	73154-0756		RIPLEY		OK 74062	
2 WOODFORD 3 4 5 pacing Orders: No Spacing		4130  Location Exceptio	7 8 9 10 n Orders:		Increased Der	nsity Orders:	
2014 2014	00541 00587 00589 00588				Special Orders	S	
Total Depth: 14350 Ground Elevation: 915 Surface C		Casing: 240	Casing: 240 De		epth to base of Treatable Water-Bearing FM: 190		
Under Federal Jurisdiction:	No	Fresh Wat	er Supply Well Drilled:	No	Su	urface Water used to Drill: Yes	
PIT 1 INFORMATION			Approved Method for disposal of Drilling Fluids:				
ype of Pit System: CLOSEI	Closed System Means	Steel Pits					

Pit Location Formation: OSCAR

**Liner not required for Category: C**Pit Location is BED AQUIFER

Within 1 mile of municipal water well? N

Wellhead Protection Area?

Category of Pit: C

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

located in a Hydrologically Sensitive Area.

## **HORIZONTAL HOLE 1**

Sec 20 **PAYNE** Twp 18N Rge 4E County Spot Location of End Point: N2 N2 N2 NW 1/4 Section Line: Feet From: NORTH 165 Feet From: WEST 1/4 Section Line: 1320

Depth of Deviation: 2700 Radius of Turn: 1500

Direction: 180
Total Length: 9400

Measured Total Depth: 14350

True Vertical Depth: 4200

End Point Location from Lease,
Unit, or Property Line: 165

PENDING CD - 201400589

Notes:

Category Description

PENDING CD - 201400541 3/4/2014 - G30 - (640 HOR) 20 & 29-18N-4E

VAC 565417 MISS (NW4 20) VAC 578674 MISS (SE4 20) EXT 617455 MSSP, WDFD, OTHER POE TO BHL (MSSP) NLT 660' FB

POE TO BHL (MSSP) NLT 660° FB POE TO BHL (WDFD) NLT 330° FB REC 2/16/14 (JOHNSON)

PENDING CD - 201400587 3/4/2014 - G30 - 20 & 29-18N-4E

X201400541 MSSP, WDFD

EST MULTI UNIT FOR HORIZONTAL WELL PER OCC 165:5-7-62

20-18N-4E (50%) 29-18N-4E (50%) NO OP. NAMED

REC 2/16/14 (JOHNSON)

PENDING CD - 201400588 3/4/2014 - G30 - 20-18N-4E

X201400541 MSSP, WDFD

COMP. INT. NCT 0 FSL, NCT 165 FNL, NCT 660 FWL

NO OP. NAMED REC 2/19/14 (JOHNSON)

3/4/2014 - G30 - 29-18N-4E X201400541 MSSP, WDFD

SHL NCT 280 FSL, NCT 2080 FWL

COMP. INT. NCT 0 FNL, NCT 165 FSL, NCT 660 FEL

NO OP. NAMED

REC 2/19/14 (JOHNSON)

WELLHEAD PROTECTION AREA 2/26/2014 - G71 - RIPLEY PWA - 1 WPA, NE/4 29-T18N-R4E