API NUMBER: 125 23804

Oil & Gas

Straight Hole

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

Approval Date: 04/15/2013
Expiration Date: 10/15/2013

PERMIT TO DRILL

ELL LOCATION: Sec: 1	6 Twp: 7N Rge: 4E	County: POT	TAWATOMIE			
POT LOCATION: C	112 112	ROM QUARTER: FROM ON LINES:	SOUTH FROM	WEST		
Lease Name: BURKE STA	TE	Well No:	2310 21	2310	Well will be	330 feet from nearest unit or lease boundary
	HEAD OPERATING INC	Well NO.	Telephone:	4326839700	Well Will De	OTC/OCC Number: 22963 0
ARROWHEAD OPI					IEAD OPER	ATING INC.
MIDLAND,	TX 7970	5-4534		MIDLAND		TX 79705
1 CALVIN 2 SENORA 3 EARLSBORG 4 WOODFORG 5 HUNTON Dacing Orders: No Spacing)	3350 3430 3540 3650 3700 Location Exception	n Orders:	6 SYLVAN 7 VIOLA 8 SIMPSON 9 10	-	4000 4100 4170 ancreased Density Orders:
Total Depth: 4500	Ground Elevation: 947	Surface	Casing: 140		Depth	to base of Treatable Water-Bearing FM: 90
Under Federal Jurisdiction:	No	Fresh Wate	er Supply Well Drille	d: No		Surface Water used to Drill: No
PIT 1 INFORMATION			Approved Method for disposal of Drilling Fluids:			
ype of Pit System: ON SIT	E			A. Evaporation/dewa	ter and backfillin	ng of reserve pit.
Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft below base of pit? Y Within 1 mile of municipal water well? N			-	H. SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER		
Vellhead Protection Area? tit is located in a Hydr	N ologically Sensitive Area.					

Notes:

Liner required for Category: 1B

Pit Location is BED AQUIFER

Pit Location Formation: OSCAR

Category Description

SPACING 4/11/2013 - G75 - FORMATIONS UNSPACED; 160-ACRE LEASE (NE4)