PI NUMBER: 125 23805 raight Hole Oil & Gas WELL LOCATION: Sec: 16 Twp: SPOT LOCATION: W2 SW [Lease Name: BURKE STATE	OIL & G/	A CORPORATION COMMISS AS CONSERVATION DIVISIO P.O. BOX 52000 HOMA CITY, OK 73152-2000 (Rule 165:10-3-1) <u>PERMIT TO DRILL</u> TTAWATOMIE SOUTH FROM WEST 1650 1550 20	
Operator ARROWHEAD OP Name:	ERATING INC	Telephone: 4326839700	OTC/OCC Number: 22963 0
ARROWHEAD OPERATIN 10 DESTA DR STE 550E MIDLAND,	IG INC TX 79705-4534		HEAD OPERATING INC. TA DRIVE, SUITE 550E D TX 79705
Formation(s) (Permit Valid f Name 1 CALVIN 2 SENORA 3 EARLSBORO 4 WOODFORD 5 HUNTON	for Listed Formations Only): Depth 3300 3400 3540 3650 3725	Name 6 SYLVAN 7 VIOLA 8 SIMPSON 9 10	Depth 4000 4075 N 4150
Spacing Orders: No Spacing	Location Exception	on Orders:	Increased Density Orders:
		e Casing: 130	Special Orders: Depth to base of Treatable Water-Bearing FM: 60
Under Federal Jurisdiction: No	Fresh Wa	ter Supply Well Drilled: No	Surface Water used to Drill: No
PIT 1 INFORMATION Type of Pit System: ON SITE			r disposal of Drilling Fluids: vater and backfilling of reserve pit.
Type of Mud System: WATER BASED Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater t Within 1 mile of municipal water well? Wellhead Protection Area? N Pit is located in a Hydrologically	han 10ft below base of pit? Y N		TED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER
Category of Pit: 1B			
Liner required for Category: 1B Pit Location is BED AQUIFER Pit Location Formation: OSCAR			

Notes:

Category

Description

SPACING

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