	County: ROGER	CONSERVATIO P.O. BOX 52000 MA CITY, OK 7 Rule 165:10-3- ERMIT TO DRI MILLS ORTH FROM E	N DIVISION) 3152-2000) _L AST	Approval Date: 09/17/2014 Expiration Date: 03/17/2015
Lease Name: CATHERINE	Well No: 2	H-23	980 Well wi	II be 250 feet from nearest unit or lease boundary.
Operator LE NORMAN OPERATING LLC Name:		Telephone: 4055	481200	OTC/OCC Number: 22738 0
LE NORMAN OPERATING LLC 4700 GAILLARDIA PKWY STE 200 OKLAHOMA CITY, OK 731	42-1881		BOBBY CANNON 7571 N. 1780 RD. CRAWFORD	
Formation(s) (Permit Valid for Listed Formati Name	ons Only): Depth		Name	Depth
1 TONKAWA 2 3 4 5	8060	6 7 8 9 10		
Spacing Orders: 603398	Location Exception Or	ders:		Increased Density Orders:
Pending CD Numbers: 201404978				Special Orders:
Total Depth: 13325 Ground Elevation: 2198	Surface Ca	asing: 1500	E	Depth to base of Treatable Water-Bearing FM: 370
Under Federal Jurisdiction: No	Fresh Water St	upply Well Drilled:	No	Surface Water used to Drill: Yes
PIT 1 INFORMATION		Appro	ved Method for disposal of	Drilling Fluids:
Type of Pit System: ON SITE Type of Mud System: WATER BASED		A. E [.]	aporation/dewater and bac	kfilling of reserve pit.
Chlorides Max: 8000 Average: 5000 Is depth to top of ground water greater than 10ft below base of Within 1 mile of municipal water well? N Wellhead Protection Area? N Pit is located in a Hydrologically Sensitive Area. Category of Pit: 1B Liner required for Category: 1B	pit? Y	H. S	DIL COMPACTED PIT, NO	TIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER
Pit Location is BED AQUIFER Pit Location Formation: OGALLALA				

HORIZONTAL HOLE 1

Sec 23 Rge 25W County ROGER MILLS Twp 17N Spot Location of End Point: С N2 NW NE Feet From: NORTH 1/4 Section Line: 330 Feet From: EAST 1/4 Section Line: 1980 Depth of Deviation: 7480 Radius of Turn: 580 Direction: 360 Total Length: 4934 Measured Total Depth: 13325 True Vertical Depth: 8060 End Point Location from Lease. Unit, or Property Line: 330 Notes: Description Category DEEP SURFACE CASING 9/17/2014 - 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 PENDING CD - 201404978 9/17/2014 - G91 - (I.O.) 23-17N-25W X 603398 TNKW SHL 250 FNL, 1980 FEL COMP. INT. NCT 165 FSL, NCT 165 FNL, NCT 1320 FEL NO OP. NAMED REC. 8-11-2014 (STUCK) SPACING - 603398 9/17/2014 - G91 - (640)(HOR) 23-17N-25W EST TNKW POE TO BHL NCT 660' FB (SUPERCEDED NON-DEVELOP NON-HORIZONTAL) SPACING UNITS; COEXIST PRODUCING

NON-HORIZONTAL SPACING UNITS)