Horizontal Hole Oil \& Gas (Rule 165:10-3-1)

## PERMIT TO DRILL



|  |  |  |
| :--- | :--- | :--- |
| JACK LYON |  |  |
| 43501 SOUTH 346 ROAD |  |  |
| PAWNEE | OK 74058 |  |

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

|  | Name | Depth |  |
| :--- | :--- | :--- | :--- |
| 1 | MISSISSIPPI | 3591 | 6 |
| 2 |  | 7 |  |
| 3 |  | 8 |  |
| 4 |  | 9 |  |
| 5 |  | 10 | Depth |

Spacing Orders: 586250
Pending CD Numbers: 201300912

Increased Density Orders: 596682

Special Orders:
Total Depth: $9163 \quad$ Ground Elevation: 991

Surface Casing: 400
Depth to base of Treatable Water-Bearing FM: 210

Under Federal Jurisdiction: No

PIT 1 INFORMATION
Type of Pit System: CLOSED Closed System Means Steel Pits
Type of Mud System: WATER BASED
Chlorides Max: 30000 Average: 5000
Is depth to top of ground water greater than 10ft below base of pit? 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: OSCAR

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.


| Additional Surface Owner | Address | City, State, Zip |
| :--- | :--- | :--- |
| TERRY LYON | 23800 HARVEST | MORRISON, OK 73061 |
| TIM LYON | 12800 GLEN EAGLE DRIVE | CHOCTAW, OK 73020 |

Notes:
Category
Description
INCREASED DENSITY - 596682 2/14/2013-G30-14-22N-4E X586250 MISS
2 WELLS
CUMMINGS OIL COMPANY 4/20/12
PENDING CD-201300912 2/14/2013-G30-14-22N-4E X586250 MISS SHL 450 FNL, 600 FWL 23-22N-4E COMP. INT. NCT 165 FSL, NCT 165 FNL, NCT 560 FEL 14-22N-4E NO OP. NAMED
REC 3/5/13 (M.PORTER)
SPACING - 586250
2/14/2013 - G30 - (640 HOR) 14-22N-4E EST MISS
NLT 660' FBL

