API NUMBER: 117 23519

Oil & Gas

Horizontal Hole

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

Approval Date: 03/06/2013

Expiration Date: 09/06/2013

PERMIT TO DRILL

WELL LOCATION:	Sec:	23	Twp	: 22N	Rge:	4E	County:	PAW	NEE
SPOT LOCATION:	S2	N2		NE	NE		FEET FROM QUARTER:	FROM	NOR

FEET FROM QUARTER: FROM NORTH FROM EAST SECTION LINES: 450 660

Lease Name: BRYANT Well No: 2-14H Well will be 450 feet from nearest unit or lease boundary.

Operator CUMMINGS OIL COMPANY Telephone: 4059481818 OTC/OCC Number: 5481 0

CUMMINGS OIL COMPANY 5400 NW GRAND BLVD STE 100

OKLAHOMA CITY, OK 73112-6113

JACK LYON

43501 SOUTH 346 ROAD

PAWNEE OK 74058

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

	Name	Depth	Name	Depti	h
1	MISSISSIPPI	3591	6		
2			7		
3			8		
4			9		
5			10		
Spacing Orders:	586250	Location Exception Orders:		Increased Density Orders:	596682

Pending CD Numbers: 201300912 Special Orders:

Total Depth: 9163 Ground Elevation: 991 Surface Casing: 400 Depth to base of Treatable Water-Bearing FM: 210

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

PIT 1 INFORMATION Approved Method for disposal of Drilling Fluids:

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? $\;\;$ Y

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

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 13-22621

H. CLOSED SYSTEM=STEEL PITS (PER OPERATOR OPTION)

HORIZONTAL HOLE 1

Sec 14 Twp 22N Rge 4E County PAWNEE

Spot Location of End Point: N2 N2 NE NE Feet From: NORTH 1/4 Section Line: 165
Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 2800
Radius of Turn: 900
Direction: 360
Total Length: 4950

Measured Total Depth: 9163

True Vertical Depth: 3681

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

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