

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

API NUMBER: 083 24358

Approval Date: 12/16/2014
Expiration Date: 06/16/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 18N Rge: 3W County: LOGAN
SPOT LOCATION: SW NW NW NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 628 300

Lease Name: BIG LAKE 21-18N-3W Well No: 2MH Well will be 300 feet from nearest unit or lease boundary.
Operator Name: DEVON ENERGY PRODUCTION CO LP Telephone: 4052353611 OTC/OCC Number: 20751 0

DEVON ENERGY PRODUCTION CO LP
333 W SHERIDAN AVE DEC 34.428
OKLAHOMA CITY, OK 73102-5010

BIG LAKE RANCH, LLC
6351 WCR 69
MULHALL OK 73063

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	5609	6	
2	WOODFORD	5940	7	
3	SYLVAN	6015	8	
4			9	
5			10	

Spacing Orders: 606748 Location Exception Orders: 633288 Increased Density Orders: 633289

Pending CD Numbers:

Special Orders:

Total Depth: 11488 Ground Elevation: 978 **Surface Casing: 500** Depth to base of Treatable Water-Bearing FM: 230

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

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 50000 Average: 8000

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: GARBER

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 14-29079

H. SEE MEMO

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.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 325000 Average: 250000

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: GARBER

HORIZONTAL HOLE 1

Sec 21 Twp 18N Rge 3W County LOGAN

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 400

Depth of Deviation: 5382

Radius of Turn: 736

Direction: 353

Total Length: 4950

Measured Total Depth: 11488

True Vertical Depth: 6015

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

12/16/2014 - 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

INCREASED DENSITY - 633289

12/16/2014 - G91 - 21-18N-3W
X606748 WDFD
1 WELL
DEVON ENERGY PRODUCTION CO, L.P.
11-20-2014

LOCATION EXCEPTION - 633288

12/16/2014 - G91 - 21-18N-3W
X606748 MSSP, WDFD, SLVN, OTHER
COMPL. INT. NCT 150 FNL, NCT 150 FSL, NCT 330 FEL
DEVON ENERGY PRODUCTION CO, L.P.
11-20-2014

MEMO

12/16/2014 - G76 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 606748

12/16/2014 - G91 - (640)(HOR) 21-18N-3W
EXT 598742 MSSP, WDFD, SLVN, OTHER
POE TO BHL (MSSP, SLVN) NLT 660' FB, NCT 600' FWB
POE TO BHL (WDFD) NLT 330' FB, NCT 600' FWB
(SUPERSEDE SP. 70019 MSSLM)

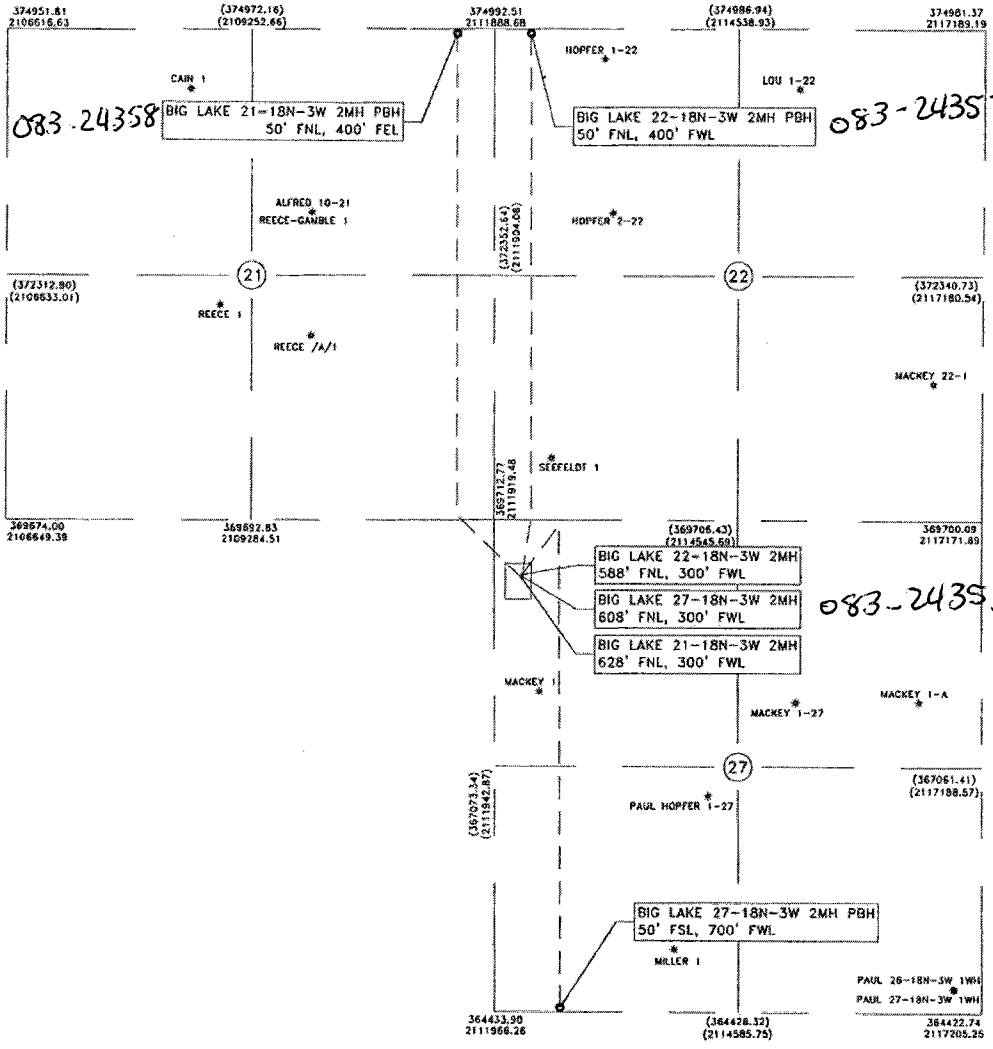
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083 24358 BIG LAKE 21-18N-3W 2MH

SECTIONS 21, 22, 27,
T 18 N - R 3 W, I.M.,
LOGAN COUNTY, OKLAHOMA

BASIS OF BEARINGS
GRID NORTH

NAD 83, OK NORTH
VERT. DATUM = NAVD 88



J. Wyatt Bishop 11-24-14
DATE
J. WYATT BISHOP
OKLAHOMA L.P.L.S. NO.: 1649

NOTES:
This plat represents a proposed well site and does not represent a true boundary survey. This location has been very carefully staked on the ground according to the latest G.L.O. records, U.S.G.S. maps and photographs available to us, but its accuracy is not guaranteed. Review this plat and notify Gateway Services Group, LLC immediately of any possible discrepancy.
Coordinates shown in (parentheses) are based upon local occupation and improvements or calculated per proportional measurement and/or G.L.O. record distance.

LEGEND

- SURFACE HOLE LOCATION = *
- PROPOSED BOTTOM HOLE LOCATION = (INFORMATION PROVIDED BY CLIENT) = ○
- EXISTING WELL = *
- (INFORMATION PROVIDED BY OTHERS)
- PROPOSED LATERAL = - - -

LICENSED PROFESSIONAL LAND SURVEYOR
J. Wyatt Bishop
11-24-14
1649
OKLAHOMA

Devon Energy Production Company, LP.
333 W. Sheridan
Oklahoma City, OK 73102

devon

Gateway
Gateway Services Group, LLC

PO. BOX 960
MEEKER, OK 74855
OFF. (405) 273-0954
FAX (405) 273-0580
C.A. NO. 4091 (LS)
EXP. DATE 6-30-2016

WELL LOCATIONS
BIG LAKE 27-18N-3W 2MH,
BIG LAKE 22-18N-3W 2MH & BIG LAKE 21-18N-3W 2MH
SECTIONS 21, 22, 27,
T 18 N - R 3 W, I.M.,
LOGAN COUNTY, OKLAHOMA

DRAWN BY: RLG	DATE: 8/25/14	CHK'D: BJH	
GATEWAY NO.: 14-0734-003R2	SCALE: 1"=2000'		
W.B.S. NO.: XX-108602, XX-108658, XX-108655.			
REV.	DWN.	DESCRIPTION	DATE
1	SBF	RESTATE	11/12/14
2	RLG	CHANGED SHL ORDER	11/24/14