

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

API NUMBER: 073 26536

Approval Date: 04/17/2019

Expiration Date: 10/17/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 18N Rge: 7W

County: KINGFISHER

SPOT LOCATION: ☐ NW ☐ NE ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 233 799

Lease Name: SYDNA 1807

Well No: 2LOH-29

Well will be 233 feet from nearest unit or lease boundary.

Operator Name: CHAPARRAL ENERGY LLC

Telephone: 4054788770; 4054264

OTC/OCC Number: 16896 0

CHAPARRAL ENERGY LLC  
701 CEDAR LAKE BLVD  
OKLAHOMA CITY, OK 73114-7800

LINDA C. BEST  
613 W. VAN BUREN  
CRESCENT OK 73028

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	7460	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 645769

Location Exception Orders:

Increased Density Orders: 694329

Pending CD Numbers: 201900774

Special Orders:

Total Depth: 12300

Ground Elevation: 1080

**Surface Casing: 500**

Depth to base of Treatable Water-Bearing FM: 250

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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: 5000 Average: 3000

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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

PERMIT NO: 19-36488

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: 300000 Average: 200000

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 29 Twp 18N Rge 7W County KINGFISHER

Spot Location of End Point: SE SW SE SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1700

Depth of Deviation: 6436

Radius of Turn: 600

Direction: 175

Total Length: 4921

Measured Total Depth: 12300

True Vertical Depth: 8000

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

Notes:

Category

Description

HYDRAULIC FRACTURING

4/13/2019 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: [OCCEWEB.COM/OG/OGFORMS.HTML](http://OCCEWEB.COM/OG/OGFORMS.HTML); AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: [FRACFOCUS.ORG](http://FRACFOCUS.ORG)

INCREASED DENSITY - 694329

4/17/2019 - GB1 - 29-18N-7W  
X645769 MSSP  
10 WELLS  
CHAPARRAL ENERGY LLC  
4/9/2019

MEMO

4/13/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

Category	Description
PENDING CD - 201900774	4/17/2019 - GB1 - (I.O.) 29-18N-7W X645769 MSSP X165:10-3-28(C)(2)(B) MSSP MAY BE CLOSER THAN 600' TO EXISTING AND/OR PROPOSED WELL COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FWL NO OP. NAMED REC. 2/26/2019 (MINMIER)
SPACING - 645769	4/16/2019 - GB1 - (640)(HOR) 29-18N-7W VAC OTHER VAC 78360/150199 MNNG SE4 VAC 78360 MNNG NE4 VAC 77834 MSSSD NE4 VAC 77834/150199 MISS W2 SE4 VAC 79449 MISS EXT OTHER EST MSSP, OTHER COMPL. INT. NLT 660' FB (COEXIST SP. ORDER # 77834/150199 MISS E2 SE4 & MISS NE4 NW4 LEASE BASIS)

Chaparral Energy

SYDNA 1807 2LOH-29

SYDNA 1807 3LOH-29

## COVER SHEET

Section 29 Township 18N Range 7W I.M.Well: SYDNA 1807 3LOH-29County KINGFISHER State OklahomaWell: SYDNA 1807 2LOH-29Operator Chaparral Energy  
701 Cedar Lake Blvd  
Oklahoma City, OK 73114

Well: \_\_\_\_\_

Well: \_\_\_\_\_

GPS DATUM NAD-83  
OK NORTH ZONE

POINT	NAME	NORTHING	EASTING	LATITUDE	LONGITUDE	WELL CALLS	S-T-R
SHL	SYDNA 1807 3LOH-29	369246.46'	1975448.30'	N36.0143638073°	W97.9765056235°	233' FNL 774' FWL	29-18N-7W
LP	SYDNA 1807 3LOH-29	369306.41'	1975054.42'	N36.0145287421°	W97.9778374114°	165' FNL 380' FWL	29-18N-7W
BHL	SYDNA 1807 3LOH-29	364394.80'	1975076.11'	N36.0010360497°	W97.9777678837°	165' FSL 380' FWL	29-18N-7W
SHL	SYDNA 1807 2LOH-29	369246.99'	1975473.34'	N36.0143652356°	W97.9764209754°	233' FNL 799' FWL	29-18N-7W
LP	SYDNA 1807 2LOH-29	369333.41'	1976374.32'	N36.0146019945°	W97.9733744052°	165' FNL 1700' FWL	29-18N-7W
BHL	SYDNA 1807 2LOH-29	364411.98'	1976396.05'	N36.0010823148°	W97.9733055011°	165' FSL 1700' FWL	29-18N-7W

GPS DATUM NAD-27  
OK NORTH ZONE

POINT	NAME	NORTHING	EASTING	LATITUDE	LONGITUDE	WELL CALLS	S-T-R
SHL	SYDNA 1807 3LOH-29	369222.96'	2007048.85'	N36.0143257817°	W97.9761662152°	233' FNL 774' FWL	29-18N-7W
LP	SYDNA 1807 3LOH-29	369282.91'	2006654.98'	N36.0144907230°	W97.9774979536°	165' FNL 380' FWL	29-18N-7W
BHL	SYDNA 1807 3LOH-29	364371.34'	2006676.62'	N36.0009977922°	W97.9774286395°	165' FSL 380' FWL	29-18N-7W
SHL	SYDNA 1807 2LOH-29	369223.49'	2007073.89'	N36.0143272098°	W97.9760815700°	233' FNL 799' FWL	29-18N-7W
LP	SYDNA 1807 2LOH-29	369309.90'	2007974.86'	N36.0145639685°	W97.9730350932°	165' FNL 1700' FWL	29-18N-7W
BHL	SYDNA 1807 2LOH-29	364388.51'	2007996.54'	N36.0010440501°	W97.9729664045°	165' FSL 1700' FWL	29-18N-7W

DATE STAKED: 4/2/2019

## REVISIONS

No.	DATE	BY	DESCRIPTION	COMMENTS
0	4/8/2019	CDC	ISSUE FOR APPROVAL	--

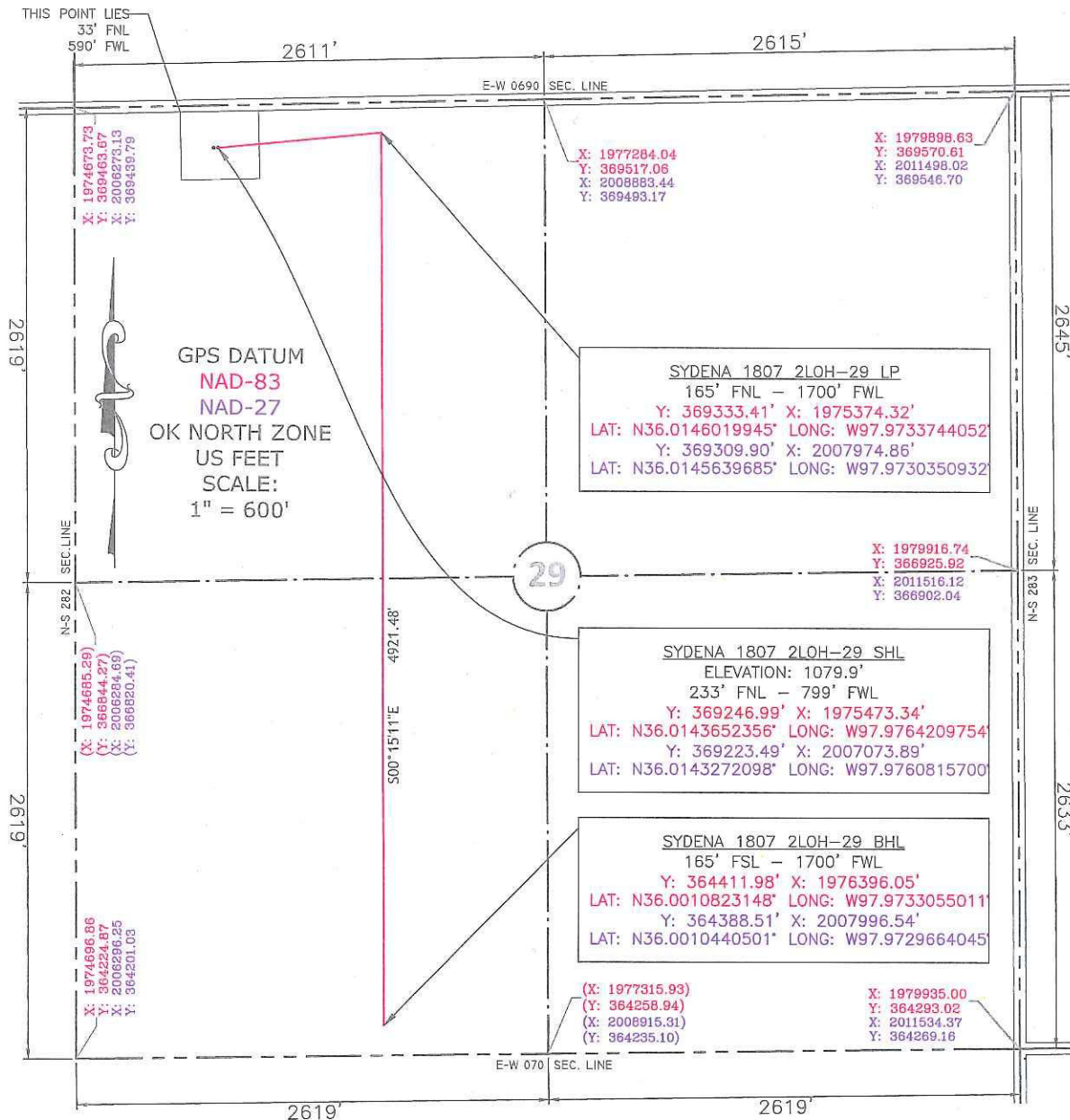
**PAN-OP**  
SURVEY & CONSULTINGPrepared By:  
Pan-Op Survey & Consulting, LLC  
11900 N. MacArthur Blvd.  
Suite C2  
Oklahoma City, OK 73162  
CA# 8166

EXHIBIT: B  
SHEET: 11x17

# SYDNA 1807 2LOH-29

Section 29 Township 18N Range 7W I.M.  
County KINGFISHER State Oklahoma  
Operator Chaparral Energy

## WELL LOCATION PLAT



Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Pan-Op promptly if any inconsistency is determined. GPS data is observed from RTK-GPS. NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey. Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true Boundary Survey.



### CERTIFICATE:

I, Cory D. Culpepper an Oklahoma Licensed Land Surveyor and an authorized agent of Pan-Op, LLC, do hereby certify to the information shown herein.

*Cory D. Culpepper* 4/8/2019  
Oklahoma RPL  
No. 1980

**PAN-OP**  
SURVEY & CONSULTING

Prepared By:  
Pan-Op Survey & Consulting, LLC  
11900 N. MacArthur Blvd.  
Suite C2  
Oklahoma City, OK 73162  
CAF 8166

DATE STAKED: 4/2/2019