

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

API NUMBER: 019 26247

Approval Date: 11/04/2016
Expiration Date: 05/04/2017

Directional Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 2S Rge: 2W County: CARTER
SPOT LOCATION: NE SE NW NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 777 1086

Lease Name: DOS ECHO Well No: 1-31 Well will be 777 feet from nearest unit or lease boundary.
Operator Name: SPRING OPERATING COMPANY Telephone: 4053406811 OTC/OCC Number: 20386 0

SPRING OPERATING COMPANY
PO BOX 2048
EDMOND, OK 73083-2048

JOHN BENNETT
6225 DIANE DRIVE
OKLAHOMA CITY OK 73118

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

Name	Depth	Name	Depth
1 ALDRIDGE	4800	6 WOODFORD	6400
2 HUMPHREYS	5000	7 HUNTON	6850
3 SIMS	5400	8 VIOLA	7100
4 GOODWIN	5800	9 SIMPSON	7950
5 SYCAMORE	6100	10 WEST SPRING CREEK /OF THE ARBUCKLE/	10000

Spacing Orders: 615371

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 11000 Ground Elevation: 940 **Surface Casing: 200** Depth to base of Treatable Water-Bearing FM: 70

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

PIT 1 INFORMATION

Type of Pit System: ON SITE
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: 2
Liner not required for Category: 2

Pit Location is BED AQUIFER
Pit Location Formation: WELLINGTON

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

H. SEE MEMO

DIRECTIONAL HOLE 1

Sec 31 Twp 2S Rge 2W County CARTER

Spot Location of End Point: NW SW NE NW

Feet From: NORTH 1/4 Section Line: 752

Feet From: WEST 1/4 Section Line: 1525

Measured Total Depth: 11000

True Vertical Depth: 10000

End Point Location from Lease,

Unit, or Property Line: 752

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 BED AQUIFER

Pit Location Formation: WELLINGTON

Additional Surface Owner	Address	City, State, Zip
DONNA SEARS	2404 NW 113TH	OKLAHOMA CITY, OK 73120
CHRISTOPHER WADE LUSHER	19918 SE 36TH STREET	HARRAH, OK 73045
BARBARA SCOTT	10317 PLUMMER DRIVE	DALLAS, TX 75228

Notes:

Category	Description
BOTTOM-HOLE LOCATION	11/3/2016 - G75 - 752' FNL, 1525' FWL NW4 31-2S-2W PER OPERATOR
HYDRAULIC FRACTURING	11/1/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK HTTP://FRACFOCUS.ORG/ WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.
MEMO	11/1/2016 - G71 - PIT 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
SPACING - 615371	11/3/2016 - G75 - (160) NW4 31-2S-2W VAC 310642 HMPR, SIMS, GDWN, SCMR, WDFD EXT 590363 HMPR, SIMS, GDWN, SCMR, WDFD, HNTN, VIOL, SMPS, OTHER EST ADDG, WSCK, OTHERS
SURFACE LOCATION	11/3/2016 - G75 - 777' FNL, 1086' FWL NW4 31-2S-2W PER STAKING PLAT
TOTAL DEPTH	11/3/2016 - G75 - 11,000' PER OPERATOR

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 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.

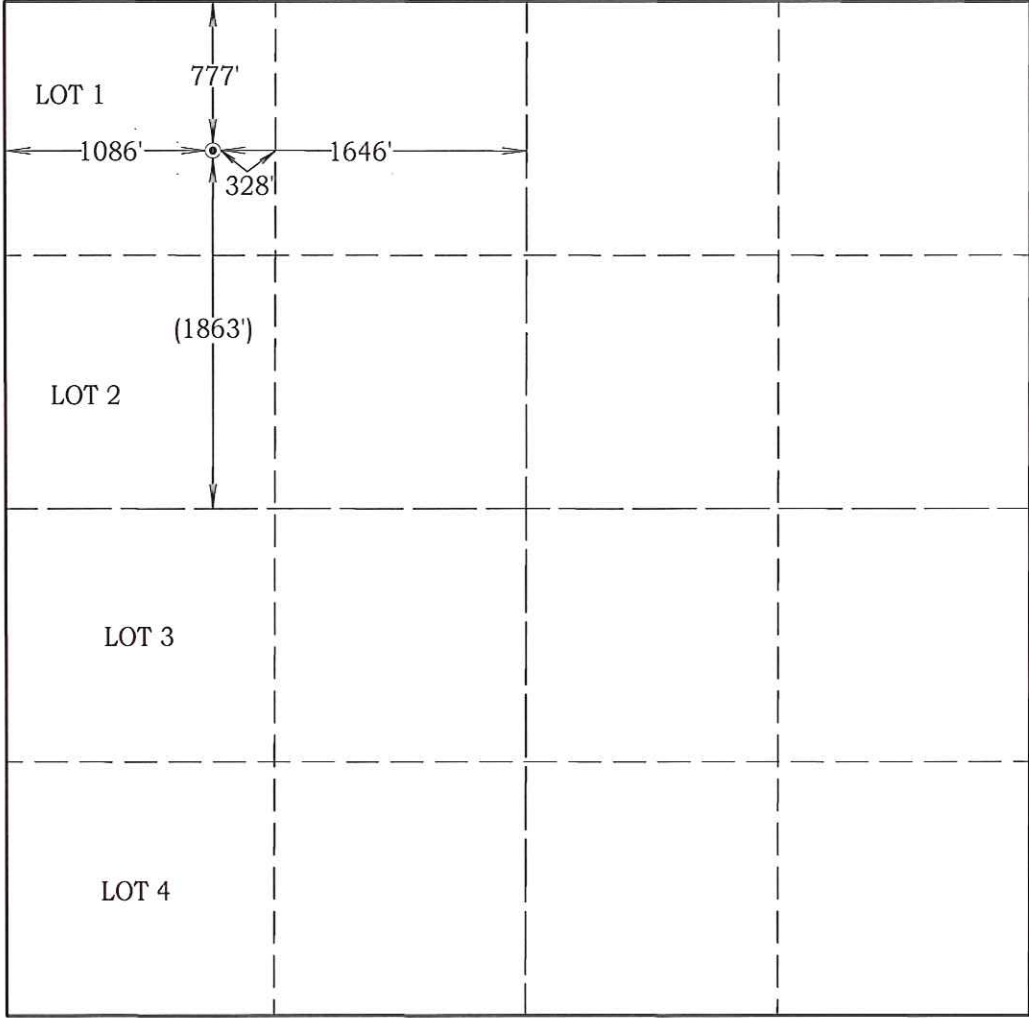
Well Location Plat
M & M Land Surveying, Inc.
 520 "E" Street NW. Ardmore, OK. 73401
 Office 580-226-0446 Mobile 580-221-4999

API 019-26247

Company Name: Spring Operating Company Lease Name: Dos Echo #1-31
 Section 31 Township 2 South Range 2 West County Carter Oklahoma

Primary Location 777' FNL - 1086' FWL Elevation 940' Good Location? Yes
 Alternate # 1 _____
 Alternate # 2 _____

Topography
Location fell in brushy
pasture.



Scale: 1" = 1000'
 Invoice # 16330
 Date 9/14/16

Location G.P.S. (WGS84)
 Latitude: 34.34506°
 Longitude: 97.45390°

Best Accessibility to Location
From the North or West

Distance & Direction From The Jct of SH. #53 East and SH. #76, go 2 miles East on SH. #53 to the Northwest Corner of Section 31
 Highway or Town _____

CERTIFICATE:

I, D. Harry McClintick, a Registered Land Surveyor in the state of Oklahoma, do hereby certify that the above described Well Location was surveyed and staked on the ground as shown.

D. Harry McClintick 9/14/16
 D. Harry McClintick, R.P.L.S. # 1367, CA # 3093

This location has been staked according to the best official survey records available to us, but its accuracy is not guaranteed. Please review this plat and notify us immediately of any discrepancy.

The distances shown in parenthesis () are calculated distances based on the quarter section being 2640' and have not been measured.

