

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

API NUMBER: 049 25085

Approval Date: 11/17/2016
Expiration Date: 05/17/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 4N Rge: 4W County: GARVIN
SPOT LOCATION: SW NE SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 850 950

Lease Name: SOMERS 0404 Well No: 1-31-30SXH Well will be 850 feet from nearest unit or lease boundary.
Operator Name: MARATHON OIL COMPANY Telephone: 7132962003 OTC/OCC Number: 1363 0

MARATHON OIL COMPANY
5555 SAN FELIPE ST
HOUSTON, TX 77056-2701

SAG LLC
3418 ROBERT DRIVE
DUNCAN OK 73533

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

Name	Depth	Name	Depth
1 SPRINGER	11318	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201604703
201604704
201604705
201604707
201604709

Special Orders:

Total Depth: 22860 Ground Elevation: 1088 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 450

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: 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 BED AQUIFER

Pit Location Formation: DUNCAN

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 16-31699

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 BED AQUIFER

Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 30 Twp 4N Rge 4W County GARVIN

Spot Location of End Point: N2 NW NW NW

Feet From: NORTH 1/4 Section Line: 150

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 12190

Radius of Turn: 462

Direction: 358

Total Length: 9944

Measured Total Depth: 22860

True Vertical Depth: 13174

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category

Description

DEEP SURFACE CASING

10/28/2016 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

10/28/2016 - 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/](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

10/28/2016 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201604703

10/28/2016 - G60 - (640)(HOR) 31-4N-4W
VAC 218926 SPRG
EST SPRG
POE TO BHL NLT 660' FB
REC. 11-15-16 (M. PORTER)

PENDING CD - 201604704

10/28/2016 - G60 - (640)(HOR) 31-4N-4W
VAC 646397 SPRG
EST SPRG
POE TO BHL NLT 660' FB
REC. 11-15-16 (M. PORTER)

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.

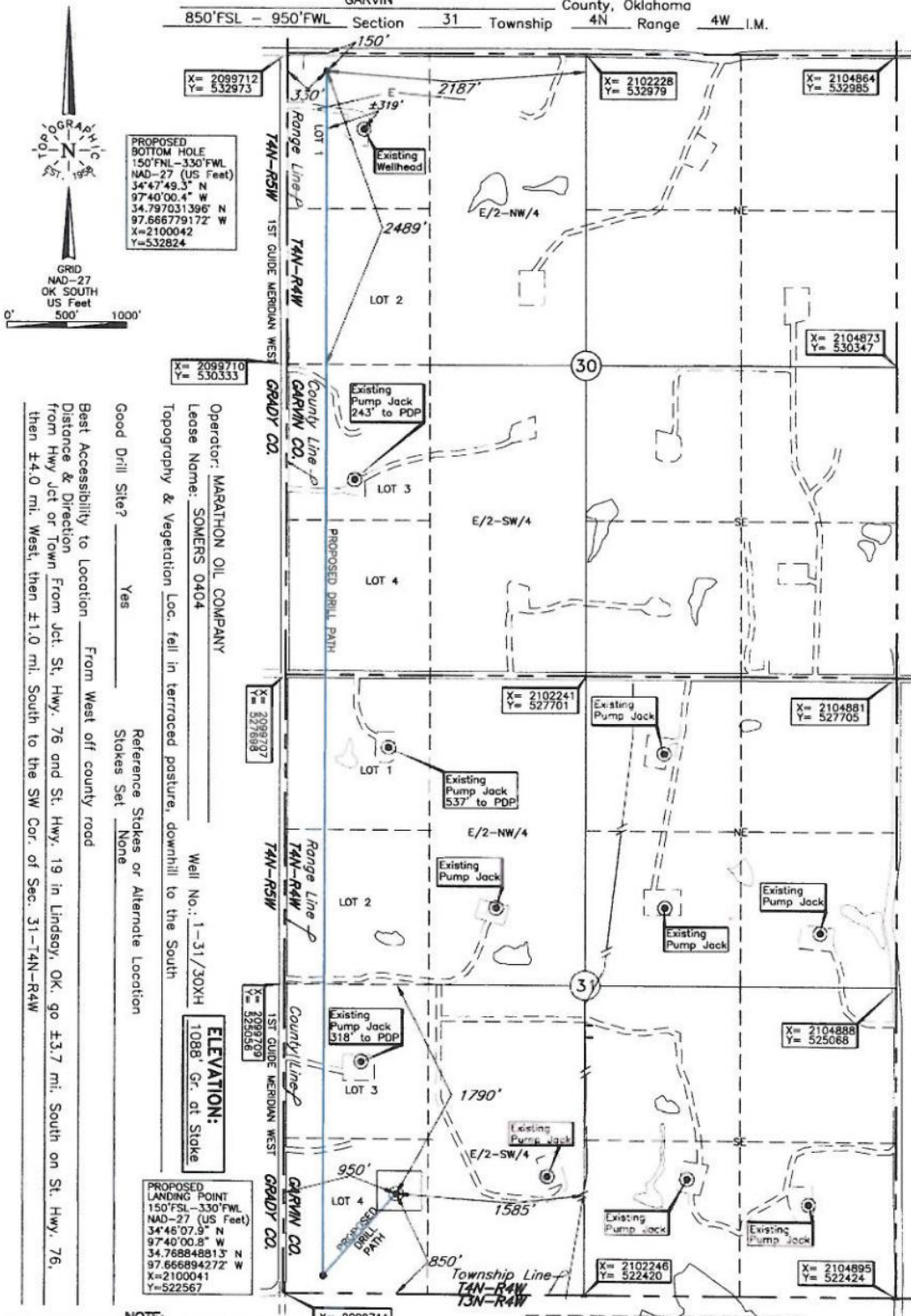
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Category	Description
PENDING CD - 201604705	10/28/2016 - G60 - (I.O.) 30 & 31-4N-4W EST MULTIUNIT HORIZONTAL WELL X201604703 (30-4N-4W) SPRG X201604704 (31-4N-4W) SPRG 50% 30-4N-4W 50% 31-4N-4W NO OP. NAMED REC. 11/15/16 (M. PORTER)
PENDING CD - 201604707	10/28/2016 - G60 - (I.O.) 30-4N-4W X2016047030 SPRG COMPL. INT. (31-4N-4W) NCT 150' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (30-4N-4W) NCT 0' FSL, NCT 150' FNL, NCT 330' FWL NO OP. NAMED REC. 11-15-16 (M. PORTER)
PENDING CD - 201604709	10/28/2016 - G60 - (I.O.) 31-4N-4W X201604704 SPRG COMPL. INT. (31-4N-4W) NCT 150' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (30-4N-4W) NCT 0' FSL, NCT 150' FNL, NCT 330' FWL NO OP. NAMED REC. 11-15-16 (M. PORTER)

This permit does not address the right of entry or settlement of surface damages.
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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.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA
 6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219
 Certificate of Authorization No. 1293 LS
 GARVIN

County, Oklahoma
 850' FSL - 950' FWL Section 31 Township 4N Range 4W I.M.



PROPOSED BOTTOM HOLE
 150' FNL - 330' FWL
 NAD-27 (US Feet)
 34°47'49.13" N
 97°40'00.4" W
 34.797031396" N
 97.666779172" W
 X=2100042
 Y=532824

X= 2099710
 Y= 530333

Operator: MARATHON OIL COMPANY
 Lease Name: SOMERS 0404
 Topography & Vegetation Loc. fall in terraced pasture, downhill to the South

X= 2099707
 Y= 527888

Well No.: 1-31/30XH
 ELEVATION:
 1088' Gr. at Stake

X= 2099709
 Y= 525056

PROPOSED LANDING POINT
 150' FSL - 330' FWL
 NAD-27 (US Feet)
 34°46'07.5" N
 97°40'00.8" W
 34.76888813" N
 97.666894272" W
 X=2100041
 Y=522567

X= 2099711
 Y= 522417

BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

NOTE:
 The information shown herein is for construction purposes ONLY.

Revision **A** Date of Drawing: Oct. 19, 2016
 Invoice # 266647 Date Staked: Oct. 12, 2016 AC/TR

DATUM: NAD-27
 LAT: 34°46'14.8" N
 LONG: 97°39'53.4" W
 LAT: 34.770769159" N
 LONG: 97.664823869" W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK SOUTH
 X: 2100661
 Y: 523268

CERTIFICATE:
 I, Lee K. Goss on Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Oklahoma Lic. No. 1778

