

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

API NUMBER: 045 23723

Approval Date: 01/23/2018
Expiration Date: 07/23/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 02 Twp: 17N Rge: 24W County: ELLIS
SPOT LOCATION: SE NE NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 635 1500

Lease Name: ROBERTA Well No: 3526 3H Well will be 635 feet from nearest unit or lease boundary.
Operator Name: EOG RESOURCES INC Telephone: 4052463212 OTC/OCC Number: 16231 0

EOG RESOURCES INC
3817 NW EXPRESSWAY STE 500
OKLAHOMA CITY, OK 73112-1483

KENNETH & CHARLENE KNOWLES REVOC. TRUST
179228 E. COUNTY RD. 63
ARNETT OK 73832

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

Name	Depth	Name	Depth
1 MARMATON	9520	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 610233
584952

Location Exception Orders:

Increased Density Orders: 665303
672488

Pending CD Numbers: 201707951
201707952

Special Orders:

Total Depth: 20773 Ground Elevation: 2418 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 710

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: 100000 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: OGALLALA

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-33415
E. Haul to Commercial pit facility: Sec. 21 Twn. 14N Rng. 21W Cnty. 129 Order No: 376462
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: OGALLALA

HORIZONTAL HOLE 1

Sec 26 Twp 18N Rge 24W County ELLIS

Spot Location of End Point: NW NW NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 2580

Depth of Deviation: 9012

Radius of Turn: 818

Direction: 350

Total Length: 10476

Measured Total Depth: 20773

True Vertical Depth: 9573

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

Notes:

Category

Description

DEEP SURFACE CASING

1/18/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

1/18/2018 - 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; 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

INCREASED DENSITY - 665303

1/23/2018 - G75 - 35-18N-24W
X610233 MRMN
2 WELLS
EOG RESOURCES, INC.
6-26-2017

INCREASED DENSITY - 672488

1/23/2018 - G75 - 26-18N-24W
X584952 MRMN
3 WELLS
EOG RESOURCES, INC.
1-22-2018

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.

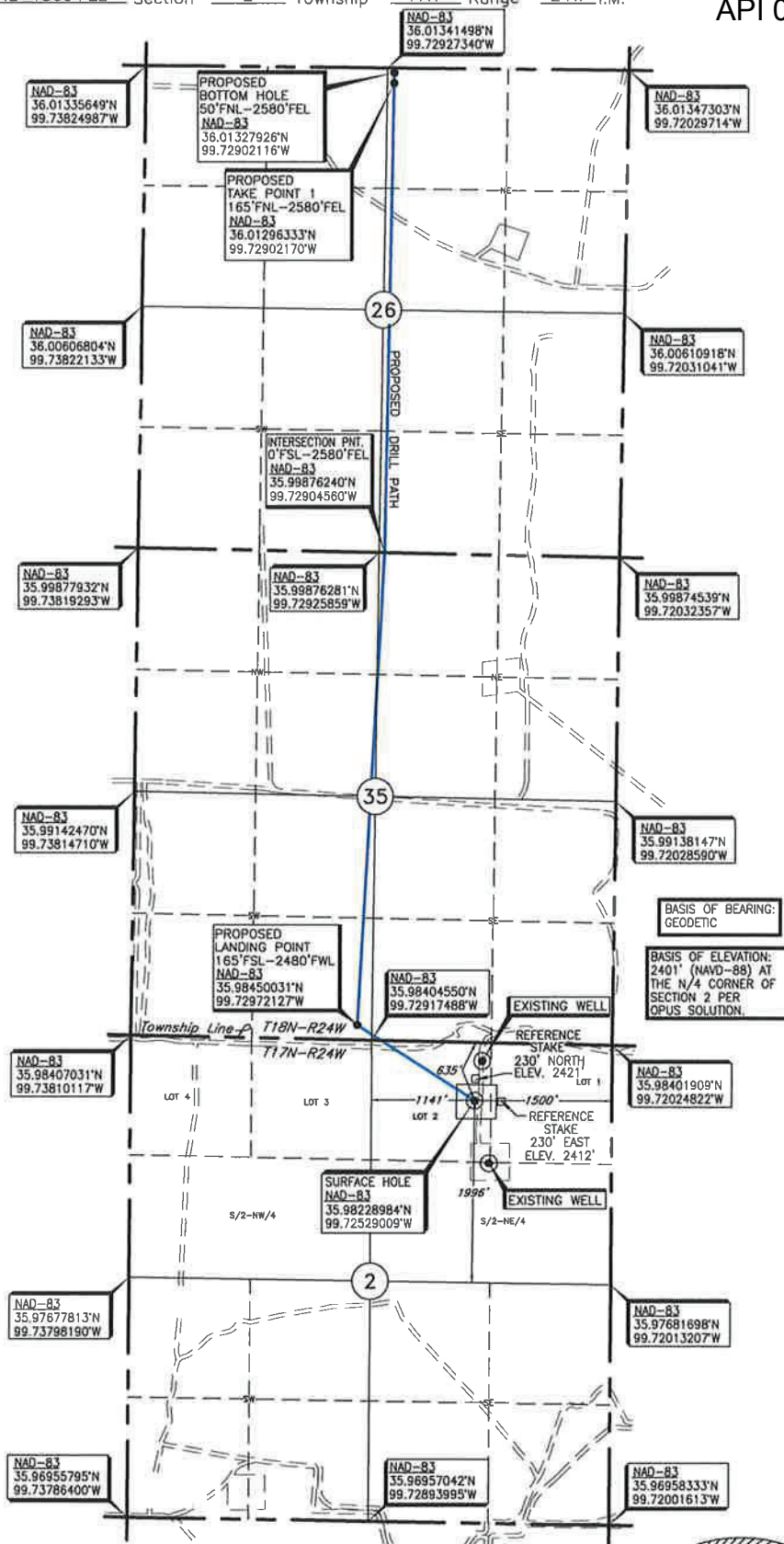
Category	Description
MEMO	1/18/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS TO LONE MOUNTAIN FACILITY, EPA ID # OKD065438376, 28 & 33-23N-15W, MAJOR CO.
PENDING CD - 201707951	1/23/2018 - G75 - (I.O.) 35 & 26-18N-24W EST MULTIUNIT HORIZONTAL WELL X610233 MRMN 35-18N-24W X584952 MRMN 26-18N-24W 50% 35-18N-24W 50% 26-18N-24W NO OP. NAMED REC 12-18-2017 (THOMAS)
PENDING CD - 201707952	1/23/2018 - G75 - (I.O.) X610233 MRMN 35-18N-24W X584952 MRMN 26-18N-24W SHL (2-17N-24W) NE4 COMPL. INT. (35-18N-24W) NCT 165' FSL & NCT 2480' FWL, NCT 0' FNL & NCT 2580' FEL COMPL. INT. (26-18N-24W) NCT 0' FSL, NCT 165' FNL, NCT 2580' FEL NO OP. NAMED REC 12-18-2017 (THOMAS)
SPACING - 584952	1/23/2018 - G75 - (640)(HOR) 26-18N-24W EST MRMN, OTHERS POE TO BHL NCT 660' FB (SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)
SPACING - 610233	1/23/2018 - G75 - (640)(HOR) 35-18N-24W EXT 601929 MRMN POE TO BHL NCT 660' FB (SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)

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API 045-23723



LANDING POINT, TAKE POINT 1, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.



Operator: **EOG RESOURCES, INC.**
 Lease Name: **ROBERTA 3526**
 Well No.: **3H**
 ELEVATION: **2418' Gr. at Stake NAVD-88**

Topography & Vegetation Location fell in sandy grass pasture, ±440' SW. of existing well.

Reference Stakes or Alternate Location
 Stakes Set 230' North - Elev. 2421; 230' East - Elev. 2412 from ROBERTA 35 4H

Good Drill Site? Yes
 Best Accessibility to Location From South off county road
 Distance & Direction from Hwy Jct or Town From the junction of US Hwy 263 S. & US Hwy 60/St. Hwy 51, East of Arnett, Oklahoma, go ± 10.5 miles South on US Hwy 283, then ± 2 miles East to the Northeast Corner of Section 2, T17N-R24W.

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY.

(This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.)

DATUM: NAID-83
 LAT: 35.98228984°N
 LONG: 99.72529009°W

Revision B Date of Drawing: Nov. 13, 2017 NMB
 Invoice # 284094 Date Staked: Apr. 26, 2017 JGW

CERTIFICATE:

I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

Thomas L. Howell
 Oklahoma Lic. No. 1433

