



3335 Pollok Drive
Conroe, Texas 77303

936.442.2500 (office)
936.442.2599 (fax)
www.msenergyservices.com

February 8, 2012

The Railroad Commission of Texas
Oil & Gas Division
PO Drawer 12967
Capital Station
Austin, Texas 78711-2967

Attn: Pam Johns

RE: EOG Resources, Inc.
University 43A, Well #0802H (Permit No. 728084)
Survey: UL / Abstract Not Available
Field: LIN (WOLFCAMP)
Irion County, TX
API Number: 42-235-34897

Dear Ms. Johns:

Please find enclosed the original and one copy of the survey performed on the above referenced well by MS Energy Services; RRC Operator No. 592474. Other information required by your office is as follows:

<u>Name of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Date Performed</u>	<u>Type of Survey</u>
Samuel Smith	Original	Surface - 712'	01-10-12	Gyroscopic

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

Larae Townsend
MS Survey

MS Directional | *MS Guidance* | *MS Survey* | *MS Wireline*

**RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION**

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER 728084	DATE PERMIT ISSUED OR AMENDED Nov 18, 2011	DISTRICT * 7C		
API NUMBER 42-235-34897	FORM W-1 RECEIVED Nov 10, 2011	COUNTY IRION		
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 1003.15		
OPERATOR EOG RESOURCES, INC.		253162 NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. District Office Telephone No: (325) 857-7450		
LEASE NAME UNIVERSITY 43 'A'		WELL NUMBER 0802H		
LOCATION 4.4 miles W direction from BARNHART		TOTAL DEPTH 6800		
Section, Block and/or Survey SECTION ◀ 8 BLOCK ◀ 43 ABSTRACT ◀ SURVEY ◀ UL				
DISTANCE TO SURVEY LINES 1180 ft. EAST 2280 ft. SOUTH		DISTANCE TO NEAREST LEASE LINE 100 ft.		
DISTANCE TO LEASE LINES 1180 ft. EAST 2280 ft. SOUTH		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below		
FIELD(s) and LIMITATIONS: <p align="center">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</p>				
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST LEASE	WELL # NEAREST WE	DIST
----- LIN (WOLFCAMP) UNIVERSITY 43 'A'	1003.15 100	6,750 800	0802H 800	7C
----- WELLBORE PROFILE(s) FOR FIELD: Horizontal -----				
RESTRICTIONS: Lateral: TH1 Penetration Point Location Lease Lines: 100.0 F SOUTH L 1180.0 F EAST L Terminus Location BH County: IRION Section: 3 Block: 43 Abstract: Survey: UL Lease Lines: 100.0 F NORTH L 1180.0 F EAST L Survey Lines: 100.0 F NORTH L 1180.0 F EAST L				
THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS This well shall be completed and produced in compliance with applicable special field or statewide spacing and density rules. If this well is to be used for brine mining, underground storage of liquid hydrocarbons in salt formations, or underground storage of gas in salt formations, a permit for that specific purpose must be obtained from Environmental Services prior to construction, including drilling, of the well in accordance with Statewide Rules 81, 95, and 97.				



Job Number: SVCO-120052 State/Country: Texas/USA
 Company: EOG Resources, Inc. Declination: 6.83°
 Lease/Well: University 43A, Well #0802H Grid: East To Grid
 Location: Irion County, TX File name: F:\SURVEY\2012SU-1\EOG\CONROE\UN0802H.SVY
 Rig Name: Production Date/Time: 11-Jan-12 / 11:28
 RKB: 0' Curve Name: Surface - 712' M.D. (Gyroscopic)
 G.L. or M.S.L.: GL

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

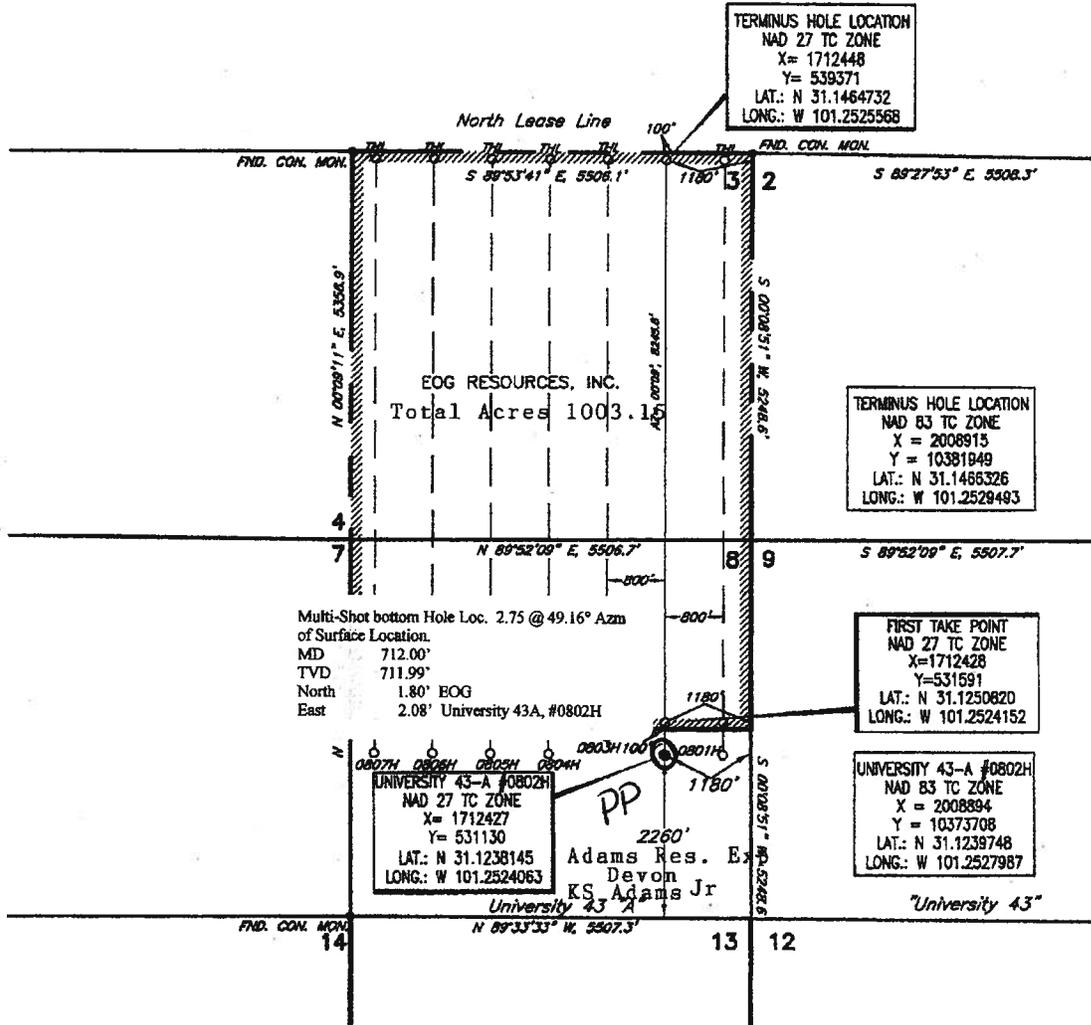
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth				CLOSURE		Dogleg Severity Deg/100
				N-S FT	E-W FT	Vertical Section FT	Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.25	8.22	100.00	.22	.03	.22	.22	8.22	.25
200.00	.25	76.88	200.00	.48	.27	.48	.55	29.73	.28
300.00	.25	345.70	300.00	.74	.43	.74	.86	30.28	.36
400.00	.50	35.61	400.00	1.31	.63	1.31	1.45	25.84	.39
500.00	.50	137.41	499.99	1.34	1.18	1.34	1.79	41.40	.78
600.00	.50	69.21	599.99	1.18	1.89	1.18	2.22	58.07	.56
700.00	.50	336.00	699.99	1.73	2.12	1.73	2.73	50.75	.73
Last Survey Depth Recorded									
712.00	.25	314.69	711.99	1.80	2.08	1.80	2.75	49.16	2.35

TOPOGRAPHIC

SURVEYING • MAPPING • GIS • GPS
 2903 N. BIG SPRING • MIDLAND, TEXAS 79705
 TELEPHONE: (432) 682-1653 (800) 787-1653 • FAX (432) 682-1743

IRION _____ County, Texas
 SHL: 1180' FEL & 2260' FSL
 Description: THL: 100' FNL & 1180' FEL (SEC. 3)

SECTION 8, BLOCK 43, UNIVERSITY LAND



Multi-Shot bottom Hole Loc. 2.75 @ 49.16° Azm
 of Surface Location.
 MD 712.00'
 TVD 711.99'
 North 1.80' EOG
 East 2.08' University 43A, #0802H

UNIVERSITY 43-A #0802H
 NAD 27 TC ZONE
 X = 1712427
 Y = 531130
 LAT.: N 31.1238145
 LONG.: W 101.2524063

TERMINUS HOLE LOCATION
 NAD 27 TC ZONE
 X = 1712448
 Y = 539371
 LAT.: N 31.1464732
 LONG.: W 101.2525568

TERMINUS HOLE LOCATION
 NAD 83 TC ZONE
 X = 2008915
 Y = 10381949
 LAT.: N 31.1466326
 LONG.: W 101.2529493

FIRST TAKE POINT
 NAD 27 TC ZONE
 X = 1712428
 Y = 531591
 LAT.: N 31.1250620
 LONG.: W 101.2524152

UNIVERSITY 43-A #0802H
 NAD 83 TC ZONE
 X = 2008894
 Y = 10373708
 LAT.: N 31.1239748
 LONG.: W 101.2527987

LEGEND

- x — = Fence
- E — = Powerline
- v — = Water Line
- ~ — = Pipeline
- == == = Lease Road

This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us. This plot does not in any way represent a "Boundary Survey", and does not comply with correct T.B.P.L.S. Minimum Standards of Procedures for Boundary Surveys.

SCALE: 1" = 2000'
 0' 1000' 2000'

Operator **Geog resources, inc.**

Date Staked SEPTEMBER 20, 2011

Lease Name & Well No. UNIVERSITY 43-A #0802H

Ground Elev. 2607'

Topography & Vegetation NATURAL PASTURE

Nearest Town in County 4.4 MILES WEST OF BARNHART, TEXAS



Invoice #
LO_UNIVERSITY43_0802H/518NW
 A.C.P.

CERTIFICATION:

I, William J. Keating, a Registered Professional Land Surveyor, and an authorized agent of Topographic Land Surveyors, do hereby certify that in my professional opinion the above described well location was surveyed and staked on the ground as shown. This plot is for Texas Railroad Commission permitting only.

William J. Keating
 Texas Reg. No. 5041