

DRILLING REPORT

NEW GULF ENERGY

6310 E. 102nd Street
Tulsa, Oklahoma 74137
Office (918) 728-3020

2 ZERR

470'FSL 356'FEL
Section 17-T12S-R32W
Logan County, Kansas

Elevation: **GL 3052 KB 3062**

API # 15-109-21055

Drilling Contractor: **VAL DRILLING RIG 4** 620-617-2793
Larry Hinderliter (Toolpusher) 620-804-0097

Well-site Geologist: Steven P. Murphy 620-639-3030
New Gulf Geologist: Joe Baker 316-253-9696 (cell)
316-733-5826 (home)

Reference Well : **New Gulf Energy**

1 Zerr
2068'FSL' 1260'FEL
17-12S-32W
Logan Co., Kansas

New Gulf Drilling Supervisor: Jim Henkle 620-617-2868

	E-LOG TOPS	DATUM	#1 ZERR Reference Well
ANHYDRITE	2578	+484	+6
BASE ANHYDRITE	2602	+460	+6
STOTLER	3676	-614	+2
TOPEKA	3801	-739	+3
HEEBNER	4022	-960	+4
TORONTO	4051	-989	+3
LANSING	4064	-1002	+2
MUNCIE CREEK	4207	-1145	+5
STARK	4296	-1234	+2
BKC	4361	-1292	+8
MARMATON	4388	-1326	+5
ALTAMONT B	4435	-1373	+5
PAWNEE	4489	-1427	+4
FT SCOTT	4542	-1480	+6
CHEROKEE	4569	-1507	+5
JOHNSON	4602	-1540	+6
MORROW SHALE	4637	-1575	+3
MORROW SAND	4665	-1603	
MISS	4678	-1616	-32
RTD	4758	-1696	
LTD	4757	-1695	

12/10/11 Move In
 12/11/11 Spud @ 1:45 PM Set Surface: 6 Jts New 24# 85/8" Tally 243.14
 Set @ 255' cement w/ 180 Sxs Common 3% CC 2% gel Plug down 9:45 PM
 Cement Did Circulate
 12/12/11 259' SHS ¼ degree @ 259'
 12/13/11 1850' SHS 2 degree @1260'
 12/14/11 2885' Drilling ahead
 12/15/11 3505' Drilling Ahead
 12/16/2011 4050' Bit Trip To Surface
 12/17/2011 4100' Dst #1
 12/18/2011 4320' Dst # 2
 12/19/2011 4500' Drilling Ahead ~ 100 off the Johnson Estimated Johnson depth @ 4608
 12/20/2011 4640' Dst # 3 Johnson
 12/21/2011 4758' RTD-Logging

**Comments: Good strong blows on opens and blowback on shut-in pulling test
Should be oil.**

DST #1 Lansing A & B Zones

DIAMOND TESTING

4050-4100

30-45-30-45

1st Open: BOB in 19"

1st Shut-In: No Blow

2nd Open: BOB 23"

2nd Shut-In: No Blow

RECOVERY:

30' Gas In Pipe,

15' OCWM (15%Oil,20%Wtr,65% Mud)

159' OCWM (4% Oil,47% Wtr,49%Mud)

124' OCMW (2%Oil,84%Wtr,14%Mud)

TOTAL FLUID : 298'

IFP/FFP: 24-96/98-161#

Recovery Chlorides: 46,500 ppm

ISP/FSP: 1190/1171#

PH 6 RW .12@ 62 deg F

IHP/FHP: 1960/1956#

System Chlorides 2,500 ppm

BHT: 117 deg.F

DST #2 Lansing I , J, K Zones

DIAMOND TESTING

4262-4320

30-45-30-60

1st Open: Building Blow OBB in 10min

1st Shut-In: 21/2" Blow back

2nd Open: Building Blow OBB in 121/2 min

2nd Shut-In: BB

RECOVERY:

435' Gas In Pipe

63' Clean Oil (39 grav)

62' G&OCWM (8% Gas, 10% Oil,34% Wtr,48% Mud)

62' G&OCMW (4% Gas,6% Oil, 65% Wtr,25% Mud)

62' OCWM (1% Oil, 95% Wtr, 4% Mud)

TOTAL FLUID 249'

IFP/FFP: 29-83/89-130

Recovery Chlorides: 54,500 PPM

ISP/FSP: 1256/1251#

PH 6 RW.15@58deg

IHP/FHP: 2089/1067#

System Chlorides 3000 ppm

BHT: 119 deg F

DST # 3 JOHNSON

4590-4640

15-45-15-60

1st Open: Building Blow OBB in 1 ¼ min

2nd Open: Building Blow OBB in 1 ¾ min

DIAMOND TESTING

1st Shut-In: Blow Back OBB

2nd Shut-In: Blow Back OBB

RECOVERY:**1170' Gas In Pipe****464' Clean Oil (31 grav)****72' G&OCM (4% Gas, 8% Oil, 88% Mud)****TOTAL FLUID 536'**

IFP/FFP: 61-153/160-212

ISP/FSP: 358/353#

IHP/FHP: 2241/2240#

BHT: 126 deg F

System Chlorides 3500 ppm

Johnson Zone Pressure Comments:

#1 Sheetz Spud 2/4/2011 ISP/FSP: 1139/1135#

#1 Zerr Spud 9/19/2011 ISP/FSP: 1051/1025#

#2 Zerr 12/20/2011 ISP/FSP: 358/353#

SHOWS

Lansing A (4066-68) Ls finexln , oolitic/ vuggy porosity ssfo ,lt. stain , faint odor (DST 1)

Lansing B (4098-4102) Ls wh-cream fossil, oolitic, rare interxln porosity SSFO on break, spotty stain ,slight odor(DST1)

Lansing E/F (4138-4148) Ls crm-tan, rare interxln porosity, vssfo on break, no odor,spotty stain

Ls wh, fine xln, fossil, oolitic, chalky ,rare gd vuggy porosity, ssfo, fair stain, slight odor

Lansing H(4223-4226) Ls crm-gry ,finexln,oolitic, gd interxln & vug porosity, ssfo, fair sat stain ,strong odor

Lansing I (4254-4256) Ls crm-tan fnxln, sl foss, chalky, poor inetrxln por, vssfo, spotty stain, ft odor (DST 2)

Lansing J (4269-72) Ls crm-gry,fnxln,oolitic,fr-good vuggy porosity,fr-gd sfo,even brn stain, gassy on break, strong odor(DST 2)

Lansing K 4302 Ls wh-crm, fnxln oolitic, mostly dense, rare fr vuggy porosity, ssfo, gassy on break, spotty stn, strong odor (Dst 2)

Johnson (4614-17,4624-37) Ls wh/tan fine-interxln sl.foss -pinpt porosity, FSFO,, Sat Staining, Fr Odor
57 unit gas kick

Morrow/Cherokee Sand (4665-70) Sd clear f-medgrn,subang, prly srted,friable, FSFO, ODOR, gil staining