

DRILLING REPORT

NEW GULF OPERATING

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

3-20 ZERR

1262'FNL 374'FEL
Section 20-T12S-R32W
Logan County, Kansas

Elevation: **GL 3044 KB 3054**

API # 15-109-21071

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**

2 Zerr
470'FSL 356'FEL
17-12S-32W
Logan Co., Kansas

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

	# 3-20 ZERR E-LOG TOPS	# 2 ZERR E-LOG TOPS	#2 ZERR Reference Well +/-
ANHYDRITE	2570 (+484)	2570 +484	FLAT
BASE ANHYDRITE	2595 (+459)	2603 +459	FLAT
STOTLER	3668 (-614)	3676 -614	FLAT
TOPEKA	3790 (-736)	3801 -739	+3
HEEBNER	4016 (-962)	4023 -961	-1
TORONTO	4040 (-986)	4047 -985	-1
LANSING	4058 (-1004)	4064 -1002	-2
MUNCIE CREEK	4204 (-1150)	4207 -1145	-5
STARK	4283 (-1229)	4286 -1224	-5
BKC	4351 (-1297)	4355 -1292	-5
MARMATON	4382 (-1328)	4388 -1326	-2
PAWNEE	4488 (-1434)	4489 -1427	-7
FT SCOTT	4538 (-1484)	4541 -1479	-5
CHEROKEE	4567 (-1513)	4569 -1507	-6
JOHNSON	4600(-1546)	4602 -1540	-6
MORROW SHALE	4636 (-1582)	4637 -1575	-7
MISS	4658 (-1604)	4678 -1616	+12
RTD	4760 (-1706)		
LTD	4761 (-1707)		

Cement Did Circulate
2/2/12 255' WOC
2/3/12 1470'
2/4/12 2750'
2/5/12 3423'
2/6/12 3950'
2/7/12 4146' Dst #1 Lansing E
2/8/12 4276' Dst # 2 Lansing J
2/9/12 4315' Dst # 3 Lansing K
2/10/12 4628' Dst # 4 Johnson Tripping Out of Hole/ Draw Works Down
2/15/12 4628' Start back up/Dst # 4 Johnson
2/16/12 4678' Bit Trip @ 4677'
2/17/12 RTD 4760/LOG/SET CASING

DST # 1 LANSING "E"
4134-4146
20-45-15-45
RECOVERY: 6' MUD W/ OIL SPECS
1st Open: Weak Blow Died In 15 Min
2nd Open: No Blow, Flushed, No Blow
IFP/FFP: 30-32/33-33 #
ISP/FSP: 1230/1204 #
IHP/FHP: 2020/2001 #
BHT: 113 F

DST # 2 LANSING "J"
4254-4276
30-45-30-60
RECOVERY:
150' Gas In Pipe, 10' FREE OIL, 30' Oil Cut Mud (25% Mud, 75% Oil) Oil Gravity 40
1st Open: Weak Blow Built to 5 1/2 "
2nd Open: Blow Built to 7 1/2 "
No Blow Back In Shut In Periods
IFP/FFP: 30-32/33-41 #
ISP/FSP: 1307/1293 #
IHP/FHP: 2090/2056 #
BHT: 116 F

DST # 3 LANSING "K"
4284-4310
30-45-60-60
RECOVERY: 1' FREE OIL, 90' Muddy Water (20% Mud,80% Water) Rec Chlorides 55,000 ppm
1st Open: Weak Blow Built to 4"
2nd Open: Weak Blow Built to 5"
No Blow Back in Shut in Periods
IFP/FFP: 32-49/52-82 #
ISP/FSP: 1345/1323 #
IHP/FHP: 2083/2068 #
BHT: 116 F

DST # 4 JOHNSON
4566-4628

30-45-60-60

RECOVERY: 750' Gas In Pipe

300' SLMCGO (5% Mud,10% Gas,85% Oil)

1st Open: Strong BOB in 17 min No Blow Back in 1st Shut In

2nd Open: Strong BOB in 11 min Weak Blow Back in Final Shut In

IFP/FFP: 30-41/91-152 #

ISP/FSP: 328/325 #

IHP/FHP: 2204/2143 #

BHT: 118 F

SHOWS

Lansing E (4134-44) Ls Wh –Tan, Fnxln-Oolitic, Chalky in part, Fr- Gd Interoolitic & Vuggy Porosity
Fr Show Free Oil, Fr Sat Stain, Fr Odor (DST # 1)

Lansing J (4270-75) Ls Wh-Gry Fnxln-Oolic, Excel Vug & Pinpt Porosity SSFO, Lite Sat Stain, Fr Odor
Gas Kick

Lansing K (4308-10) Ls Crm –Tan, Fnxln ,Oolic,Fr-Gd Interxln & Vug P,FSFO Gassy On Break,
Even Sat Stain,Strong Odor,Gas Kick

Johnson (4608-4616) Ls Crm – Brn Fnxln-Fr-Gd Interxln & Vuggy Porosity, FSFO, Sat Stn, Str Odor
(4620-4626) Lower Break: Ls Crm – Brn Vfxln, SI Chalky, Minor Chert Mostly Dns, VSSFO, Spty Stn,
Fr Odor