



RAILROAD COMMISSION OF TEXAS

Form W-2

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Status: Approved
Date: 12/23/2011
Tracking No.: 13942

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG

OPERATOR INFORMATION

Operator Name: COG OPERATING LLC Operator No.: 166150
Operator Address: ONE CONCHO CENTER 600 W ILLINOIS AVE MIDLAND, TX 79701-0000

WELL INFORMATION

API No.: 42-003-01426 County: ANDREWS
Well No.: 4 RRC District No.: 08
Lease Name: UNIVERSITY -C- Field Name: SHAFTER LAKE (WOLFCAMP)
RRC Lease No.: 19474 Field No.: 82570600
Location: Section: 25, Block: 13, Survey: UL, Abstract:

Latitude: Longitude:
This well is located miles in a
direction from 10 MILES NORTHWEST FROM ANDREWS, TEXAS,
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Well Record Only
Type of completion: Other/Recompletion
Well Type: Shut-In Producer Completion or Recompletion Date: 08/01/1993

Type of Permit Date Permit No.
Permit to Drill, Plug Back, or Deepen 03/07/2011
Rule 37 Exception
Fluid Injection Permit
O&G Waste Disposal Permit
Other:

COMPLETION INFORMATION

Spud date: Date of first production after rig released: 08/01/1993
Date plug back, deepening, recompletion, or drilling operation commenced: 03/15/1988 Date plug back, deepening, recompletion, or drilling operation ended: 04/06/1988
Number of producing wells on this lease in this field (reservoir) including this well: 3 Distance to nearest well in lease & reservoir (ft.): 1084.0
Total number of acres in lease: 160.00 Elevation (ft.): 3212 GR
Total depth TVD (ft.): 12308 Total depth MD (ft.):
Plug back depth TVD (ft.): 6450 Plug back depth MD (ft.):
Was directional survey made other than inclination (Form W-12)? No Rotation time within surface casing (hours):
Is Cementing Affidavit (Form W-15) attached? No
Recompletion or reclass? Yes Multiple completion? No
Type(s) of electric or other log(s) run: None
Electric Log Other Description:
Location of well, relative to nearest lease boundaries Off Lease : No
of lease on which this well is located: 1185.7 Feet from the West Line and
1183.9 Feet from the South Line of the
UNIVERSITY -C- Lease.

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.

Field & Reservoir Gas ID or Oil Lease No. Well No. Prior Service Type

W2: N/A

PACKET:	N/A	
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:		
GAU Groundwater Protection Determination	Depth (ft.):	Date: 12/03/2008
SWR 13 Exception	Depth (ft.):	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION	
Date of test:	Production method:
Number of hours tested: 24	Choke size:
Was swab used during this test? No	Oil produced prior to test:
PRODUCTION DURING TEST PERIOD:	
Oil (BBLs):	Gas (MCF):
Gas - Oil Ratio: 0	Flowing Tubing Pressure:
Water (BBLs):	
CALCULATED 24-HOUR RATE	
Oil (BBLs):	Gas (MCF):
Oil Gravity - API - 60.:	Casing Pressure:
Water (BBLs):	

CASING RECORD											
Row	Type of Casing	Casing Hole		Setting	Multi -	Multi -	Cement	Cement	Slurry	Top of	TOC
		Size	Size	Depth	Stage Tool	Stage Shoe		Amount	Volume	Cement	Determined
		(in.)	(in.)	(ft.)	Depth (ft.)	Depth (ft.)	Class	(sacks)	(cu. ft.)	(ft.)	By
1		13 3/8	17 1/4	202			0	200	0.0	SURF	
2		9 5/8	12 1/2	4045			0	3500	0.0	0	
3		7	8 3/4	9882			0	700	0.0	6550	

LINER RECORD									
<u>Row</u>	<u>Liner Size (in.)</u>	<u>Hole Size (in.)</u>	<u>Liner Top (ft.)</u>	<u>Liner Bottom (ft.)</u>	<u>Cement Class</u>	<u>Cement Amount (sacks)</u>	<u>Slurry Volume (cu. ft.)</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined By</u>
N/A									

TUBING RECORD			
<u>Row</u>	<u>Size (in.)</u>	<u>Depth Size (ft.)</u>	<u>Packer Depth (ft.)/Type</u>
/			
N/A			

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
N/A			

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed?	No		
Is well equipped with a downhole actuation sleeve?	No	If yes, actuation pressure (PSIG):	
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:		Actual maximum pressure (PSIG) during hydraulic fracturing:	
Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)?	No		
Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

13942

Form W-2
Rev. 4/1/83
DBC1297

Type or print only

API No. 42- 003-01426				7. RRC District No. 08	
Oil Well Potential Test, Completion or Recompletion Report, and Log				8. RRC Lease No. 19474	
				9. Well No. 4	
1. FIELD NAME (as per RRC Records or Wildcat) SHAFTER LAKE - (WOLFCAMP)		2. LEASE NAME UNIVERSITY -C-		10. County of well site ANDREWS	
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) COG OPERATING LLC			RRC Operator No. 166150		11. Purpose of filing Initial Potential <input type="checkbox"/> Retest <input type="checkbox"/> Reclass <input type="checkbox"/> Well record only <input checked="" type="checkbox"/> (explain in Remarks)
4. ADDRESS 550 WEST TEXAS AVE, SUITE 100 MIDLAND, TX 79701					
5. If Operator has changed within last 60 days, name former operator SUIT					
6a. Location (Section, Block, and Survey) SEC. 25, BLK. 13, UL SURVEY			6b. Distance and direction to nearest town in this county. 10 MILES NORTHWEST FROM ANDREWS, TEXAS		
12. If workover or reclass, give former field (with reservoir) & gas ID or oil lease no. FIELD & RESERVOIR			GAS ID or OIL LEASE #	Oil - O Gas - G	WELL NO.
13. Type of electric or other log run			14. Completion or recompletion date 08/ /1993		

SECTION I: POTENTIAL TEST DATA **IMPORTANT: Test should be for 24 hours unless otherwise specified in field rules.**

15. Date of test		16. No. of hours tested		17. Production method (Flowing, Gas Lift, Jetting, Pumping-- Size & Type of pump)		18. Choke Size	
19. Production during Test Period		Oil - BBLs	Gas -- MCF	Water - BBLs	Gas - Oil Ratio	Flowing Tubing Pressure PSI	
20. Calculated 24 Hour Rate		Oil - BBLs	Gas -- MCF	Water -- BBLs	Oil Gravity--API--60°	Casing Pressure PSI	
21. Was swab used during this test? Yes <input type="checkbox"/> No <input type="checkbox"/>				22. Oil Produced prior to test (New & Reworked wells)		23. Injection Gas--Oil Ratio	
REMARKS							

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

RECEIVED
RRC OF TEXAS
MAR 07 2011
OIL & GAS DIVISION
AUSTIN, TX

WELL TESTER'S CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

Signature : Well Tester

Name of Company

RRC Representative

OPERATOR'S CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

SHIRLEY HOUCHINS

Typed or printed name of operator's representative

LEAD REGULATORY ADVSIOR

Title of Person

Shirley Houchins
Signature

(432) 683-7443
Telephone: Area Code Number

03/01/2011
Date: mo. day year

SECTION II DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

24. Type of Completion:

New Well ☐Deepening ☐Plug Back ☐Other ☒25. Permit to Drill,
Plug Back or
Deepen

DATE

PERMIT NO.

07/29/1948

Rule 37

CASE NO.

Exception

Water Injection

PERMIT NO.

Permit

Salt Water Disposal

PERMIT NO.

Permit

Other

PERMIT NO.

26. Notice of Intention to Drill this well was filed in Name of

FRANK AND GEORGE FRANKEL

27. Number of producing wells on this lease in
this field (reservoir) including this well

NONE

28. Total number of acres
in this lease

160

29. Date Plug Back, Deepening,
WorkOver or Drilling
Operations:

Commenced

Completed

30. Distance to nearest well,
Same Lease & Reservoir31. Location of well, relative to nearest lease boundaries
of lease on which this well is located

1185.7 Feet From

WEST

Line and

1183.9 Feet from

SOUTH Line of the

UNIVERSITY -C-

Lease

32. Elevation (DF, RKB, RT, GR, ETC.)

3212

33. Was directional survey made other
than inclination (Form W-12)?☐ Yes☒ No

34. Top of Pay

35. Total Depth

12,308

36. P.B. Depth

6450

37. Surface Casing
Determined by:Field ☐

Rules

Recommendation of T.D.W.R. ☐Railroad Commission (Special) ☐

Dt. of Letter

Dt. of Letter

38. Is well multiple completion?

NO

39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease
or Gas ID No.

FIELD & RESERVOIR

GAS ID or
OIL LEASE #Oil-O
Gas-GWELL
#40. Intervals
Drilled
by:Rotary
ToolsCable
Tools☒

41. Name of Drilling Contractor

42. Is Cementing Affidavit
Attached?☐ Yes☒ No

43.

CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
13 3/8	48#	202		200SX	17 1/4	CIRC	
9 5/8	36# & 40#	4045		3500SX	12 1/2		
7	26# & 29#	9882		700SX	8 3/4	6550	

44.

LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen
				-
				-

45.

TUBING RECORD

Size	Depth Set	Packer Set	From	To
			From	To
			From	To
			From	To

46. Producing Interval (this completion) Indicate depth of perforation or open hole

47.

ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
6450 -	SET CIBP
6300 -	PERF 4 HOLES - SQZD CSG W/575 SX CMT.
5200 -	PERF 4 HOLES - SQZD CSG W/225 SX CMT.
5105 -	SET RETAINER

48.

FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS

#47 TS -TOC@5200' & 4735

W-2 FILED TO REPORT WORK DONE IN AUGUST 1993

WELL IS CURRENTLY SI - ATTEMPTED TO PLUG BACK IN THE CLEARFORK



Texas Commission
on Environmental Quality

Surface Casing Program

DEPTH OF USABLE-QUALITY GROUND WATER TO BE PROTECTED

Date December 3, 2008

TCEQ File No.: SC- 12896

API Number 00301548

RRC Lease No. 000000

Attention: ROY R JOHNSON

HENRY PETROLEUM LP
3525 ANDREWS HWY
MIDLAND TX 79703-5000

--Measured--

1040 ft FWL

2300 ft FSL

MRL:SECTION

P-5# 378642

Digital Map Location:	
X-coord/Long	
Y-coord/Lat	
Datum	Zone

County ANDREWS

Lease & Well No. UNIVERSITY-C-#3 #ALL

Purpose RE

Location: SUR-UL, BLK-13, SEC-25, -- [TD=9926] , [RRC 8] , [PSC#10227]

To protect usable-quality ground water at this location, the Texas Commission on Environmental Quality recommends:

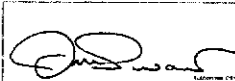
The interval from the land surface to a depth of 300 feet
and the ZONE from 1200 feet to 1600 feet must be protected.

This recommendation is applicable to all wells drilled in this SECTION 25.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. Approval of the well completion methods for protection of this groundwater falls under the jurisdiction of the Railroad Commission of Texas. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

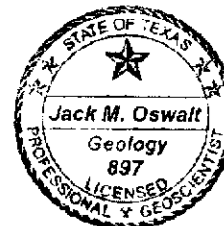
If you have any questions, please contact us at 512-239-0515, sc@tceq.state.tx.us, or by mail MC-151.

Sincerely,


Digitally signed by Jack M Oswalt
DN: c=US, st=Texas, o=Austin, ou=Surface
Casing, ou=Texas Commission on
Environmental Quality, cn=Jack M Oswalt,
email=joswalt@tceq.state.tx.us
Date: 2008.12.03 15:14:59 -0600

Jack M. Oswalt, P.G.

GEOLOGIST SEAL



Geologist, Surface Casing Team
Waste Permits Division

The seal appearing on this document was authorized by Jack M. Oswalt on 12/3/2008
Note: Alteration of this electronic document will invalidate the digital signature.