



**RAILROAD COMMISSION OF TEXAS**

**Form W-2**

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

Status: Approved  
Date: 09/24/2020  
Tracking No.: 225502

**OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT,**

OPERATOR INFORMATION			
Operator	COG OPERATING LLC	Operator	166150
Operator	600 W ILLINOIS AVE MIDLAND, TX 79701-0000		

WELL INFORMATION			
API	42-003-47941	County:	ANDREWS
Well No.:	2906SH	RRC District	08
Lease	MABEE DDA D11	Field	SPRABERRY (TREND AREA)
RRC Lease	54645	Field No.:	85280300
Location	Section: 28, Block: 39 T2N, Survey: G&MMB&A, Abstract: 91		
Latitude		Longitud	
This well is	19.54	miles in a	SE
direction from	ANDREWS, TX,		
which is the nearest town in the			

FILING INFORMATION			
Purpose of	Initial Potential		
Type of	New Well		
Well Type:	Producing	Completion or Recompletion	09/25/2019
<u>Type of Permit</u>		<u>Date</u>	<u>Permit No.</u>
Permit to Drill, Plug Back, or		08/09/2019	847029
Rule 37 Exception			
Fluid Injection			
O&G Waste Disposal			
Other:			

COMPLETION INFORMATION			
Spud	02/26/2019	Date of first production after rig	09/25/2019
Date plug back, deepening, drilling operation	02/26/2019	Date plug back, deepening, recompletion, drilling operation	05/02/2019
Number of producing wells on this lease this field (reservoir) including this	6	Distance to nearest well in lease & reservoir	47.0
Total number of acres in	1306.00	Elevation	2926 GL
Total depth TVD	9302	Total depth MD	20233
Plug back depth TVD		Plug back depth MD	20075
Was directional survey made other inclination (Form W-	Yes	Rotation time within surface casing Is Cementing Affidavit (Form W-15)	30.8 Yes
Recompletion or	No	Multiple	No
Type(s) of electric or other log(s)	Neutron logs		
Electric Log Other Description:			
Location of well, relative to nearest lease of lease on which this well is	360.0 Feet from the	Off Lease :	Yes
	2477.0 Feet from the	South Line and	
		East Line of the	
		MABEE DDA D11 Lease.	

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.			
Field & Reservoir	Gas ID or Oil Lease	Well No.	Prior Service Type
PACKET:	N/A		

W2: N/A

**FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:**

<b>GAU Groundwater Protection Determination</b>	<b>Depth</b>	1750.0	<b>Date</b>	11/29/2018
<b>SWR 13 Exception</b>	<b>Depth</b>			

**INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION**

<b>Date of</b>	12/06/2019	<b>Production</b>	Pumping
<b>Number of hours</b>	24	<b>Choke</b>	64/64
<b>Was swab used during this</b>	No	<b>Oil produced prior to</b>	64012.00
<b>PRODUCTION DURING TEST PERIOD:</b>			
<b>Oil</b>	890.00	<b>Gas</b>	880
<b>Gas - Oil</b>	988	<b>Flowing Tubing</b>	320.00
<b>Water</b>	2208		
<b>CALCULATED 24-HOUR RATE</b>			
<b>Oil</b>	890.0	<b>Gas</b>	880
<b>Oil Gravity - API - 60.:</b>	42.0	<b>Casing</b>	125.00
<b>Water</b>	2208		

**CASING RECORD**

<u>Ro</u>	<u>Type of Casing</u>	<u>Casing Size (in.)</u>	<u>Hole Size</u>	<u>Setting Depth</u>	<u>Multi - Stage</u>	<u>Multi - Stage Shoe</u>	<u>Cement Class</u>	<u>Cement Amoun</u>	<u>Slurry Volume (cu.)</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined By</u>
1	Surface	13 3/8	17 1/2	1837			C	1500	2563.0	0	Circulated to Surface
2	Intermediate	10 3/4	12 1/4	5908			C	1700	3406.0	25	Calculation
3	Intermediate	7 5/8	9 7/8	8640			H	680	1262.0	5801	Calculation
4	Intermediate	7 5/8	9 7/8	8640	5801		C	600	1368.0	0	Circulated to Surface
5	Conventional Production	5 1/2	6 3/4	20233			C	800	1288.0	7300	Cement Evaluation Log

**LINER RECORD**

<u>Ro</u>	<u>Liner Size</u>	<u>Hole Size</u>	<u>Liner Top</u>	<u>Liner Bottom</u>	<u>Cement Class</u>	<u>Cement Amoun</u>	<u>Slurry Volume (cu.)</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined</u>
N/A									

**TUBING RECORD**

<u>Ro</u>	<u>Size (in.)</u>	<u>Depth</u>	<u>Size (ft.)</u>	<u>Packer Depth (ft.)/Type</u>
1	2 7/8	8677		/

**PRODUCING/INJECTION/DISPOSAL INTERVAL**

<u>Ro</u>	<u>Open hole?</u>	<u>From (ft.)</u>	<u>To (ft.)</u>
1	No	L1 9553	20062.0

**ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.**

**Was hydraulic fracturing treatment** Yes

**Is well equipped with a downhole sleeve?** No **If yes, actuation pressure**

**Production casing test pressure (PSIG) hydraulic fracturing** 9800 **Actual maximum pressure (PSIG) during fracturin** 8703

**Has the hydraulic fracturing fluid disclosure been** Yes

<u>Ro</u>	<u>Type of Operation</u>	<u>Amount and Kind of Material Used</u>	<u>Depth Interval (ft.)</u>	
1	Fracture	SEE FRAC FOCUS	9553	20062

**FORMATION RECORD**

<u>Formations</u>	<u>Encountere</u>	<u>Depth TVD</u>	<u>Depth MD</u>	<u>Is formation</u>	<u>Remarks</u>
YATES	Yes	3014.0	3021.0	Yes	
SEVEN RIVERS	Yes	3214.0	3222.0	Yes	ESTIMATED, NOT LOGGED
QUEEN	Yes	3805.0	3816.0	Yes	
GRAYBURG	Yes	4005.0	4015.0	Yes	ESTIMATED, NOT LOGGED
SAN ANDRES - CO2 FLOOD, HIGH FLOWS, H2S, CORROSIVE	Yes	4962.0	4976.0	Yes	
HOLT	Yes	5209.0	5224.0	Yes	ESTIMATED, NOT LOGGED
GLORIETA	Yes	5709.0	5725.0	Yes	
TUBB	Yes	6009.0	6025.0	Yes	ESTIMATED, NOT LOGGED
CLEARFORK	Yes	6837.0	6853.0	Yes	
PERMIAN DETRITAL	Yes	7137.0	7153.0	Yes	ESTIMATED, NOT LOGGED
LEON	Yes	7337.0	7353.0	Yes	ESTIMATED, NOT LOGGED
WICHITA ALBANY	Yes	7826.0	7843.0	Yes	ESTIMATED, NOT LOGGED
SPRABERRY	Yes	8326.0	8343.0	Yes	
DEAN	No			No	BELOW TVD, NOT ENCOUNTERED
WOLFCAMP	No			No	BELOW TVD, NOT ENCOUNTERED
CANYON	No			No	BELOW TVD, NOT ENCOUNTERED
PENNSYLVANIAN	No			No	BELOW TVD, NOT ENCOUNTERED
MCKEE	No			No	BELOW TVD, NOT ENCOUNTERED
STRAWN	No			No	BELOW TVD, NOT ENCOUNTERED
FUSSELMAN	No			No	BELOW TVD, NOT ENCOUNTERED
DEVONIAN	No			No	BELOW TVD, NOT ENCOUNTERED
SILURIAN	No			No	BELOW TVD, NOT ENCOUNTERED
ELLENBURGER	No			No	BELOW TVD, NOT ENCOUNTERED

**Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm** No

**Is the completion being downhole commingled** No

**REMARKS**

KOP= 8703' TVD, 8720' TMD. PERFORATIONS BETWEEN 9553-20062'; SPRABERRY (TREND AREA).  
CHANGE WELL NAME TO MABEE DDA D11 CHANGE WELL NUMBER TO 2906SH

## RRC REMARKS

### PUBLIC COMMENTS:

[RRC Staff 2020-05-12 10:31:58.352] EDL=10500 feet, max acres=680, SPRABERRY (TREND AREA) oil well;

take points: 9553-20062 feet

### CASING RECORD :

### TUBING RECORD:

### PRODUCING/INJECTION/DISPOSAL INTERVAL :

### ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :

### POTENTIAL TEST DATA:

## OPERATOR'S CERTIFICATION

<b>Printed</b>	Sue Hannaman	<b>Title:</b>	Regulatory Coordinator
<b>Telephone</b>	(432) 818-1367	<b>Date</b>	08/26/2020