



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 03/20/2019
Tracking No.: 207123

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

OPERATOR INFORMATION

Operator Name: HAWKWOOD ENERGY OPERATING, LLC Operator No.: 367676
Operator Address: 4582 SOUTH ULSTER ST STE 500 DENVER, CO 80237-0000

WELL INFORMATION

API No.: 42-041-32501 County: BRAZOS
Well No.: 1H RRC District No.: 05
Lease Name: COCODRILO Field Name: AGUILA VADO (EAGLEFORD)
RRC Lease No.: 04200 Field No.: 00870500
Location: Section: ,Block: , Survey: STOKES, E P, Abstract: 221

Latitude: 30 Longitude: -96
This well is located 4 miles in a W
direction from BRYAN,
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Initial Potential
Type of completion: New Well
Well Type: Producing Completion or Recompletion Date: 09/21/2018

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	02/20/2018	836500
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 04/27/2018	Date of first production after rig released: 09/21/2018
Date plug back, deepening, recompletion, or drilling operation commenced: 04/27/2018	Date plug back, deepening, recompletion, or drilling operation ended: 06/10/2018
Number of producing wells on this lease in this field (reservoir) including this well: 2	Distance to nearest well in lease & reservoir (ft.): 2488.0
Total number of acres in lease: 679.96	Elevation (ft.): 271 GL
Total depth TVD (ft.): 8519	Total depth MD (ft.): 16820
Plug back depth TVD (ft.):	Plug back depth MD (ft.):
Was directional survey made other than inclination (Form W-12)? Yes	Rotation time within surface casing (hours): 197.5
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: Gamma Ray (MWD)	Multiple completion? No
Electric Log Other Description:	
Location of well, relative to nearest lease boundaries	Off Lease : No
of lease on which this well is located: 243.0 Feet from the NW Line and 249.0 Feet from the SW Line of the COCODRILO Lease.	

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

Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type
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PACKET: N/A

W2:	N/A		
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:			
GAU Groundwater Protection Determination	Depth (ft.):	3350.0	Date: 02/22/2018
SWR 13 Exception	Depth (ft.):	4340.0	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION			
Date of test: 10/31/2018		Production method: Flowing	
Number of hours tested: 24		Choke size: 22	
Was swab used during this test? No		Oil produced prior to test: 9681.00	
PRODUCTION DURING TEST PERIOD:			
Oil (BBLS): 528.68		Gas (MCF): 347	
Gas - Oil Ratio: 656		Flowing Tubing Pressure: 610.00	
Water (BBLS): 1025			
CALCULATED 24-HOUR RATE			
Oil (BBLS): 528.7		Gas (MCF): 347	
Oil Gravity - API - 60.: 36.1		Casing Pressure: 240.00	
Water (BBLS): 1025			

CASING RECORD											
Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	10 3/4	13 1/2	4052			A	1756	3446.0	0	Circulated to Surface
2	Intermediate	8 5/8	9 7/8	7944			H	224	298.0	6181	Calculation
3	Conventional Production	5 1/2	7 7/8	16800			H	2304	3103.0	0	Circulated to Surface

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

TUBING RECORD			
Row	Size (in.)	Depth	Size (ft.)
1	2 3/8	6969	
			Packer Depth (ft.)/Type
			6977 / 23-26#
			AS1X10K
			CARBIDE

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 8534	16722.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed?		Yes	
Is well equipped with a downhole actuation sleeve?		Yes	
If yes, actuation pressure (PSIG):		9440.0	
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:		53	
Actual maximum pressure (PSIG) during hydraulic fracturing:		11025	
Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)?		Yes	
Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)
1	Fracture	28,155,720 LBS OF PROPPANT & 522,729 BBL CLEAN	8534 16722

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
SPARTA - DISPOSAL	Yes	2840.0	2840.0	Yes	NOT LOGGED, TOP ESTIMATED
WILCOX - DISPOSAL	Yes	3610.0	3610.0	Yes	NOT LOGGED, TOP ESTIMATED
NAVARRO - DISPOSAL	Yes	5003.0	5006.0	No	AS THERE ARE NO PRODUCERS OR INJECTORS IN THE AREA, THERE IS NO NEED TO
AUSTIN CHALK - LOST CIRCULATION	Yes	7523.0	7592.0	Yes	
EAGLEFORD (AGUILA VADO)	Yes	7796.0	7924.0	Yes	PRODUCING ZONE
WOODBINE - PRODUCTION	No			No	DID NOT ENCOUNTER
BUDA - PRODUCTION	No			No	NOT ENCOUNTERED
GEORGETOWN - PRODUCTION	No			No	NOT ENCOUNTERED
EDWARDS - DISPOSAL	No			No	NOT ENCOUNTERED, TOO DEEP
Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)?					No
Is the completion being downhole commingled (SWR 10)?					No

REMARKS

RRC REMARKS	
PUBLIC COMMENTS: [RRC Staff 2019-03-15 15:46:44.952] EDL=8150 feet, max acres=720, AGUILA VADO (EAGLEFORD) oil well; take points: 8534-16722 feet	
CASING RECORD : KOP = 7,015	
TUBING RECORD:	
PRODUCING/INJECTION/DISPOSAL INTERVAL :	
ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :	
POTENTIAL TEST DATA:	

OPERATOR'S CERTIFICATION	
Printed Name: Sandra Haggard	Title: Sr. Regulatory Analyst
Telephone No.: (720) 507-0420	Date Certified: 03/18/2019