

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-1

Rev. 4/1/83
EAG0897

Type or print only
483-047

API No 42-495-31049

7 RRC District No

08

8 RRC Gas ID No.

226567

Gas Well Back Pressure Test,
Completion or Recompletion Report, and Log

1 FIELD NAME (as per RRC Records or Wildcat) Apollo (Atoka)		2 LEASE NAME University Blk 21 GU		9 Well No 142	
3 OPERATOR'S NAME (exactly as shown on Form P-5, Organization Report) Forest Oil Corporation			RRC Operator No. 275740		10. County of well site Winkler
4 ADDRESS 707 17th Street, Suite 3600, Denver, CO 80202				11 Purpose of filing	
5. Location (Section, Block, and Survey) 14 21 ULS		5b Distance and direction to nearest town in this county 3 miles west of Wink, TX		Initial Potential <input checked="" type="checkbox"/> Plug Back <input type="checkbox"/> Retest <input type="checkbox"/> Reclass <input type="checkbox"/> Well record only (Explain in remarks) <input type="checkbox"/>	
6 If operator has changed within last 60 days, name former operator		12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no FIELD & RESERVOIR Apollo (Fusselman)		GAS ID or OIL LEASE # 084131	
13 Pipe Line Connection Duke Energy Field Services		Oil -- O Gas -- G WELL # 142-L			
14. Completion or recompletion date 1/25/2007			15 Any condensate on hand at time of workover or recompletion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		16 Type of Electric or other Log Run. N/A

Section I

GAS MEASUREMENT DATA

Date of Test 2/5/2007		Gas measurement Method (Check One) Orifice Meter <input checked="" type="checkbox"/> Flange Taps <input checked="" type="checkbox"/> Pipe Taps <input type="checkbox"/> Positive Choke <input type="checkbox"/> Orifice Vent Meter <input type="checkbox"/> Pitot Tube <input type="checkbox"/> Critical-flow Prover <input type="checkbox"/>				Gas produced during test 2076.6 MCF				
Run No.	Line Size	Orif or Choke Size	24 Hr Coeff Orif or Choke	Static P _m or Choke Press	Diff h _w	Flow Temp °F	Temp. Factor F _{ff}	Gravity Factor F _g	Compress Factor F _{pv}	Volume MCF/DAY
1	4.026	1.00	6292.880	137.0	95.80	65	0.9952	0.9514	1.0140	692.2
2										
3										
4										

Section II

FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas) 0.663		Gravity Liquid Hydrocarbon N/A Deg. API		Gas-Liquid Hydro Ratio N/A CF/Bbl		Gravity of Mixture G _{mix} =		Avg Shut-in Temp °F		Bottom Hole Temp °F @ (Depth)	
D _{eff} ^{8/3} =		$\sqrt{T_f} = \sqrt{\quad} =$				$\sqrt{GL} = \sqrt{\quad} =$					
C = $\frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ =				$\frac{\sqrt{GL}}{C} = \quad = \quad =$							
Run No.	Time of Run Min	Choke Size	Wellhead Press. PSIA P _w	Wellhead Flow Temp °F	P _w ² (Thousands)	R	R ² (Thousands)	P ₁	R _w /P ₁		
Shut-In			1695								
1	4320		315								
2											
3											
4											
Run No.	F	K	S = $\frac{1}{z}$	E _{ks}	P _f and P _s	P _f ² and P _s ² (Thousands)	P _f ² - P _s ² (Thousands) ^s	Angle of Slope θ n Absolute Open Flow MCF/DAY			
Shut-In											
1											
2											
3											
4											

WELL TESTER'S CERTIFICATION. I declare under penalties prescribed in Sec 91 143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

ARC Pressure Data, Inc.

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 I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Signature Operator's representative: Jami Hofmann Tami Hofmann
Title: Regulatory Specialist
Date: 03/07/2007
Tel: (303) 812-1755
A/C: _____ Number: _____

GAS WELL
CLASSIFICATION REPORT

EAG0897

READ INSTRUCTIONS ON BACK

1. OPERATOR NAME (Exactly as shown on Form P-5 Organization Report) Forest Oil Corporation		3. RRC DISTRICT NO. 08	4. OIL LEASE NO. OR GAS WELL ID NO.																												
2. MAILING ADDRESS 707 17th Street, Suite 3600 Denver, CO 80202		5. WELL NO. 142	6 API NO 42- 495-31049																												
		7. COUNTY OF WELL SITE Winkler																													
8. FIELD NAME Apollo (Atoka)		9. LEASE NAME University Blk 21 GU																													
10. LOCATION (Section, Block, and Survey) Sec 14, Blk 21 ULS		11. PIPELINE CONNECTION OR USE OF GAS Duke Energy Field Service																													
I. PRODUCTION TEST AT RATE ELECTED BY OPERATOR (data on 24-hour basis)		II. A.S.T.M. DISTILLATION OF LIQUID SAMPLE. Distillation test is required for gas wells ONLY if the producing gas-liquid hydrocarbon ratio is less than 100,000 CF/barrel.																													
A. Date of Test <u>02/05/2007</u> B. Gas Volume <u>692.2</u> (Mcf) C. Oil or Condensate Volume <u>0</u> (Bbl) D. Water Volume <u>0</u> (Bbl) E. Gas/Liquid Hydrocarbon Ratio <u>N/A</u> (Cf/Bbl) F. Flowing Tubing Pressure <u>315</u> (psia) G. Choke Size _____ (in.) H. Casing Pressure <u>355</u> (psia) I. Shut-in Wellhead Pressure-Tubing <u>1695</u> (psia) J. Separator Operating Pressure <u>N/A</u> (psia) K. Color of Stock Tank Liquid <u>N/A</u> L. Gravity of Separator Liquid <u>N/A</u> °API M. Gravity of Stock Tank Liquid <u>N/A</u> °API N. Specific Gravity of the Gas (Air = 1) <u>0.663</u>		Date Liquid Sample Obtained _____ Where Obtained: <input type="checkbox"/> Separator <input type="checkbox"/> Stock Tank <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">% Over</th> <th style="text-align: left;">Temp (deg F)</th> <th style="text-align: left;">% Over</th> <th style="text-align: left;">Temp (deg F)</th> </tr> </thead> <tbody> <tr> <td>Initial Boiling Temp</td> <td>_____</td> <td>60</td> <td>_____</td> </tr> <tr> <td>10</td> <td>_____</td> <td>70</td> <td>_____</td> </tr> <tr> <td>20</td> <td>_____</td> <td>80</td> <td>_____</td> </tr> <tr> <td>30</td> <td>_____</td> <td>90</td> <td>_____</td> </tr> <tr> <td>40</td> <td>_____</td> <td>95</td> <td>_____</td> </tr> <tr> <td>50</td> <td>_____</td> <td>End Point</td> <td>_____</td> </tr> </tbody> </table> Total Recovery _____ percent Residue _____ percent Loss _____ percent		% Over	Temp (deg F)	% Over	Temp (deg F)	Initial Boiling Temp	_____	60	_____	10	_____	70	_____	20	_____	80	_____	30	_____	90	_____	40	_____	95	_____	50	_____	End Point	_____
% Over	Temp (deg F)	% Over	Temp (deg F)																												
Initial Boiling Temp	_____	60	_____																												
10	_____	70	_____																												
20	_____	80	_____																												
30	_____	90	_____																												
40	_____	95	_____																												
50	_____	End Point	_____																												

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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.

Tami Hofmann
NAME (Type or Print)

Tami Hofmann
SIGNATURE

Regulatory Specialist
TITLE

Tami Hofmann (303) 812-1755
CONTACT PERSON PHONE NUMBER

RRC USE ONLY

3/7/2007
DATE

University BLK-21 #142

Sec. 14, Blk-21, UL Survey
1,500' FSL & 1,120' FWL
Apollo (Fusselman) Field (#142U)
Apollo (Ellenburger) Field (#142L)
Winkler County, TX

Elev GL @ 2,802'.
Elev. KB @ 2,829' (27' KB)

Forest Oil Corporation

Existing Wellbore Diagram

15-31049

API #42-495-31049

3/6/2007

JZ

Spud Date 4/19/79.
Completion Date: 8/23/79 (Fusselman)
Completion Date: 8/23/79 (Ellenburger)
Completion Date: 1/22/07 (Atoka)

Surface Casing

13-3/8", 61#, K-55, ST&C csg set @ 2,828' KB.
Cmtd w/ 3,300 sx, Class-A, no returns, TOC @ 280'
by Temp, ran 1-1/4" pipe to 235', cmtd w/ 500 sx,
Class-C, circ cmt to surface.
(17-1/2" Hole).

Intermediate Casing

9-5/8", 53 5#, S-95, LT&C csg, 0' - 5,252' KB,
9-5/8", 47#, S-95, LT&C csg, 5,252' - 11,575' KB.
Cmtd w/ 1,375 sx Trinity Lite & 850 sx, Class-H.
TOC @ 776' (Calculated).
(12-1/4" Hole).

Intermediate Casing Liner

7-5/8", 39#, P-110, SFJP csg liner set @ 14,527' KB.
Liner hanger @ 11,412' KB
8-3/8" x 7-3/9" liner extension @ 4 42'.
7-5/8" TIW "EJ" liner hanger @ 4 78'.
Cmtd w/ 575 sx, Class- H (16 4 ppg, 1 6 cu.ft/sx).
(8-1/2" Hole).

Production Casing Liner

5" & 5 1/2" csg liner set from 14,366' - 19,150' KB.
TIW tie-back sleeve @ 2 75'
4-23/32" TIW PBR @ 16 45' (Top landed @ 14,369' KB)
TIW EJ-TB liner hanger @ 4 11' (Landed @ 14,385' KB).
5 1/2", 23#, C-75, SFJ csg @ 1,578 67' (14,366' - 15,968').
5-1/2", 20#, S-95, SFJP csg @ 1,017.01' (15,968' - 16,985').
4-7/32" TIW PBR @ 16.45' (Top landed @ 16,985' KB).
5", 23#, C-75, SFJP csg @ 2,148 73' (17,000' - 19,150')
Cmtd w/ 500 sx, Class-H 50/50 POZ (13.5 ppg).
(6-1/2" Hole)

CIBP @ 13,253' KB w/ 10' cmt
CIBP @ 16,530' KB w/ 2 sx cmt

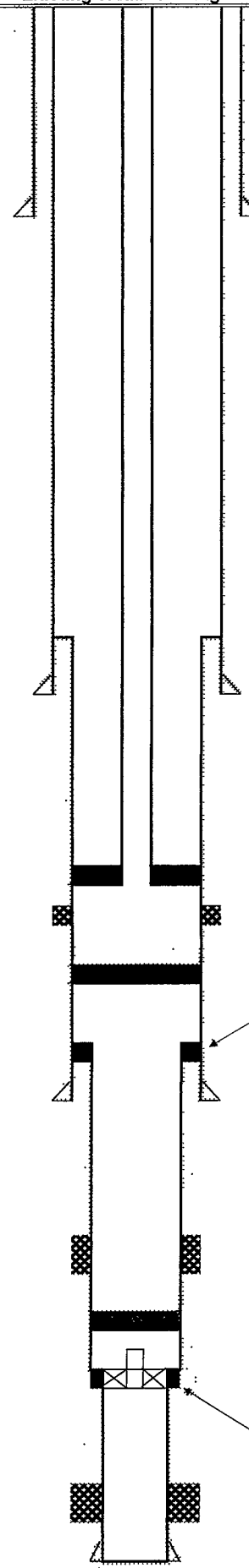
Note: 4-7/32" Seal assembly & 2-7/8" cut off tbg fish
@ approximately 16' pushed to btm & still in PBR
@ 16,985' KB

Tubing

3-1/2", 10 3#, C-75, CS-CB tbg (1 jnt @ approx 31').
3-1/2" CS-CB (Pin) x 3-1/2" CS-CB (Pin) cross-over.
3-1/2", 10.3#, C-75, CS-CB tbg (413 jnts @ approx 12,962').
3-1/2" OD x 2 75" ID Baker Model L-10 on/off tool w/ 2.75"
ID Type-F profile nipple.
3-1/2" (Box) x 2-7/8" (Pin) cross-over.
7-5/8" Baker Hornet (10K) 6 45" OD x 2 37" ID Pkr.
2-7/8" Wireline re-entry guide.
Pkr @ 13,023' KB.

Perforation Intervals

Atoka: 13,076' - 13,185' KB Gross (2 spf, 86 holes).
13,076' - 13,079' KB (3', 2 spf, 6 holes).
13,094' - 13,097' KB (3', 2 spf, 6 holes)
13,116' - 13,117' KB (1', 2 spf, 2 holes)
13,120' - 13,123' KB (3', 2 spf, 6 holes).
13,137' - 13,166' KB (29', 2 spf, 58 holes).
13,181' - 13,185' KB (4', 2 spf, 8 holes).



- 13-3/8" Csg @ 2,828' KB.

Atoka (13,076' - 13,185' KB)
1/22/07 Treated w/ 5,000 gals 15% HCl acid, 50 - RCN
7/8" 1 3 SG ball sealers, avg 2.0 bpm @ 3,609 psig,
max 5 0 bpm @ 4,830 psig, ISIP @ 2,859 psig.

- 7-5/8" Liner hanger @ 11,412' KB.

- 9-5/8" Csg @ 11,575' KB.

- Pkr @ 13,023' KB

- Atoka Perfs @ 13,076' - 13,185' KB

- CIBP @ 13,253' KB w/ 10' cmt.

4-23/32" TIW PBR top @ 14,369' KB

- 5-1/2" Liner @ 14,366' KB.

- 7-5/8" Liner csg @ 14,527' KB

- Fusselman Perfs @ 16,250' - 16,320' KB (Gross).

- CIBP @ 16,530' KB w/ 2 sx cmt

- 5-1/2" Liner csg @ 16,985' KB.

- 5" Liner csg @ 16,985' - 19,150' KB

4-7/32" TIW PBR top @ 16,985' KB w/ Seal Assembly
& cut off 2-7/8" tbg @ 16'

- Ellenburger Perfs @ 18,580' - 18,929' KB (Gross)

PBTD @ 19,071' KB
TD @ 19,150' KB.

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