Tracking No.: 12511
Status: Submitted

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

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API No. 42- 347-33182

7. RRC District No.: 06

8. RRC Gas ID No.:

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

1. FIELD NAME (as per RRC Records or Wildcat): CARTHAGE (HAYNESVILLE SHALE)

2. LEASE NAME: KURTH INVESTMENTS UNIT

9. Well No.: 1H

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): EOG RESOURCES, INC.

RRC Operator No.: 253162

10. County of well site: NACOGDOCHES

4. ADDRESS: ATTN PRODUCTION ACCTNG 6101 S BROADWAY STE 200 TYLER, TX 75703-0000

11. Purpose of filing
- Initial Potential: X
- Retest:
- Reclass:
- Well record only (Explain In remarks):

5. Location (Section, Block, and Survey): MORA, J M , A-827

5b. Distance and direction to nearest town in this county.: 6.4 MILES WEST FROM CHIRENO

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	GAS ID or OIL LEASE #	Oil-0 Gas-G	Well #
N/A			

13. Pipe Line Connection: ENBRIDGE

14. Completion or recompletion date: 01/07/2011

15. Any condensate on hand at time of workover or recompletion? Yes [ ] No [X]

16. Type of Electric or other Log Run.: PLATFORM EXPRESS

Section I — GAS MEASUREMENT DATA

Date of Test: 01/24/2011

Gas Measurement Method (Check One): Orifice Meter [X] ▶ Flange Taps [X] Pipe Taps [ ] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 39960 MCF

Run Size	Line Size	Orif. or Choke Size	24 hr Coeff. Orif. or Choke	Static Pm or Choke Press	Diff h_w	Flow Temp. ^{o}F	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	4.027	2.500	43217.4	805.0	115.89	109.0	0.956	1.012	1.043	13320.0
2										
3										
4										

Section 11 — FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
0.586	Deg. API	CF/Bbl	G_{mix} = 0.586	219.0 ^{o}F	392.0 ^{o}F@ 16731.0 (Depth)

$D_{eff}^{8/3}$ = $\sqrt{T_f}$ = $\sqrt{\quad}$ = $\sqrt{GL}$ = $\sqrt{\quad}$ =

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = $\frac{\sqrt{GL}}{C}$ = _____ = _____

Run No.	Time of Run Min	Choke Size	Wellhead Press. PSIA Pw	Wellhead Flow Temp ^{o}F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_1	P_w / P_1
Shut-in			9515	45.0					
1	4320	20/128	8665	129.0					
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)	Angle of Slope
Shut-in								θ .....
1								n .....
2								Absolute Open Flow
3								..... MCF/DAY
4								

WELL TESTERS CERTIFICATION: I declare under penalties prescribed in See. 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.

TOMMY LAWHORN — Signature: Well Tester

SPL., INC. — Name of Company

RRC Representative

OPERATORS CERTIFICATION: I declare under penalties prescribed in See. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I or prepared supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

EOG RESOURCES, INC.

Debra Gay — Signature: Operator's representative

Title

02/18/2011 — Date

Tel: (903) 509-7115 — A/C Number

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

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE 08/20/2010 — PERMIT NO. 700942
Rule 37 Exception — CASE NO.
Water Injection Permit — PERMIT NO.
Salt Water Disposal Permit — PERMIT NO.
Other — PERMIT NO.

19. Notice of Intention to Drill this well was filed in Name of: EOG RESOURCES, INC.

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 253.2

22. Date Plug Back, Deepening, Workover or Drilling Operations: Commenced 09/24/2010 — Completed 11/27/2010

23. Distance to nearest well, Same Lease &Reservoir: 0.0

24. Location of well, relative to nearest lease boundaries: 548.0 Feet From South Line and 745.0 Feet from West Line of the KURTH INVESTMENTS UNIT Lease

25. Elevation (DF. RKB, RT. GR ETC.): 302 GL

26. Was directional survey made other than inclination (Form W-12)? [X] Yes [ ] No

27. Top of Pay: 12886 MD:14281

28. Total Depth: 13607 MD:19260

29. P. B. Depth: MD:19200

30. Surface Casing Determined by: Field Rules [X] Recommendation of T.D.W.R. [X] Railroad Commission (Special) [ ] Dt. of Letter 08/23/2010

31. Is well multiple completion? [ ] Yes [X] No

32. 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-0 Gas-G	Well #
N/A			

33. Intervals Drilled by: Rotary Tools X — Cable Tools

34. Name of Drilling Contractor: NABORS DRILLING

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. 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	54.5	3120		MOD SL/CLASS H 2230	17 1/2	SURFACE	3886.0
7 5/8	39.0	13091	5988	HALCEM 3240	9 7/8	9500	4155.0
5	23.2	19259		THERMACEM KB 750	6 1/2	9000	1102.5

37. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

38. TUBING RECORD

Size	Depth Set	Packer Set
N/A		

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

From	To
From L1 18967	To 19180
From L1 18654	To 18868
From L1 18348	To 18555
From L1 18029	To 18243
From L1 17720	To 17931
From L1 17404	To 17618
From L1 17092	To 17305
From L1 16779	To 16993
From L1 16467	To 16680
From L1 16154	To 16366
From L1 15842	To 16055
From L1 15527	To 15737
From L1 15217	To 15430
From L1 14909	To 15118
From L1 14592	To 14805
From L1 14281	To 14493

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE. ETC.

Depth Interval		Amount and Kind of Material Used
18967.0	19180.0	FRAC W/138,880#S 100 MESH, 94,020#S 40/70 PRC, 11,560#S 30/50 CRC
18654.0	18868.0	FRAC W/248,680#S 100 MESH, 151,260#S 40/70 PRC, 50,600#S 30/50 CRC

40.		ACID, SHOT, FRACTURE, CEMENT SQUEEZE. ETC.
Depth Interval		Amount and Kind of Material Used
18348.0	18555.0	FRAC W/230,100#S 100 MESH, 136,120#S 40/70 PRC, 51,080#S 30/50 CRC
18029.0	18243.0	FRAC W/184,900#S 100 MESH, 150,180#S 40/70 PRC, 56,200#S 30/50 CRC
17720.0	17931.0	FRAC W/246,000#S 100 MESH, 151,700#S 40/70 PRC, 49,000#S 30/50 CRC
17404.0	17618.0	FRAC W/252,900#S 100 MESH, 158,260#S 40/70 PRC, 45,100#S 30/50 CRC
17092.0	17305.0	FRAC W/246,200#S 100 MESH, 175,043#S 40/70 PRC, 25,000#S 30/50 CRC
16779.0	16993.0	FRAC W/250,120#S 100 MESH, 142,200#S 40/70 PRC, 47,560#S 30/50 CRC
16467.0	16680.0	FRAC W249,220#S 100 MESH, 148,200#S 40/70 PRC, 45,420#S 30/50 CRC
16154.0	16366.0	FRAC W/248,300#S 100 MESH. 146,220#S 40/70 PRC, 46,660#S 30/50 CRC
15842.0	16055.0	FRAC W/241,510#S 100 MESH, 159,400#S 40/70 PRC, 49,530#S 30/50 CRC
15527.0	15737.0	FRAC W/258,360#S 100 MESH. 146,540#S 40/70 PRC, 55,500#S 30/50 CRC
15217.0	15430.0	FRAC W/246,300#S 100 MESH. 148,620#S 40/70 PRC, 56,980#S 30/50 CRC
14909.0	15118.0	FRAC W/247,960#S 100 MESH. 150,740#S 40/70 PRC, 53,000#S 30/50 CRC
14592.0	14805.0	FRAC W/246,860#S 100 MESH, 138,680#S 40/70 PRC, 50,000#S 30/50 CRC
14281.0	14493.0	FRAC W/210,160#S 100 MESH. 140,060#S 40/70 PRC, 53,190#S 30/50 CRC

41.	FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)		
Formations	Depth	Formations	Depth
SARATOGA	4015.0 MD: 4015.0	JAMES LIME	8395.0 MD: 8395.0
BASE AUSTIN	5455.0 MD: 5455.0	PETTIT	8665.0 MD: 8665.0
PALUXY	6085.0 MD: 6085.0	TRAVIS PEAK	9345.0 MD: 9345.0
GLEN ROSE	6335.0 MD: 6335.0	CV "B" LIME	11925.0 MD: 11925.0
RODESSA	7845.0 MD: 7845.0	HAYNESVILLE	12886.0 MD: 12886.0
REMARKS: N/A			