Tracking No.: 58684
Status: Submitted

# RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

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API No. 42- 471-30350

7. RRC District No.: 03

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): WILDCAT

2. LEASE NAME: HORIZON PROPERTIES

9. Well No.: 1H

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): SM ENERGY COMPANY

RRC Operator No.: 788997

10. County of well site: WALKER

4. ADDRESS: 777 N ELDRIDGE PARKWAY STE 1000 HOUSTON, TX 77079-0000

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

5. Location (Section, Block, and Survey): CUMMINS, J M , A-16

5b. Distance and direction to nearest town in this county.: 5 MILES SE DIRECTION FROM RIVERSIDE

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:

14. Completion or recompletion date: 07/29/2012

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

16. Type of Electric or other Log Run.: Combo of Induction/Neutron/Density

### Section I — GAS MEASUREMENT DATA

Date of Test: 09/08/2012

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: 1500 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. $^oF$ | Temp. Factor $F_{tf}$ | Gravity Factor $F_g$ | Compress Factor $F_{pv}$ | Volume MCF/DAY |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.826 | 1.250 | 9908.04 | 150.0 | 21.0 | 105.0 | 0.9594 | 0.9258 | 1.013 | 500.0 |
| 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. |
|---|---|---|---|---|---|
| 0.7 | 48.0 Deg. API | 9207 CF/Bbl | $G_{mix}$ = 0.974 | 0.0 $^oF$ | 230.0 $^oF$ @ 12577.0 (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 $^oF$ | $P_w^2$ (Thousands) | R | $R^2$ (Thousands) | $P_1$ | $P_w / P_1$ |
|---|---|---|---|---|---|---|---|---|---|
| Shut-in | 1440 | 23 | 0 | 0.0 | | | | | |
| 1 | 4320 | 48 | 320 | 105.0 | | | | | |
| 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.

JASON FAJKUS — Signature: Well Tester

PRECISION GAS WELL TESTING — 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.

**SM ENERGY COMPANY**

Daniel Wells — Signature: Operator's representative

Engineering Technician — Title

06/25/2013 — Date

Tel: (281) 677-2775 — 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 04/04/2012 — PERMIT NO. 736694
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: SM ENERGY COMPANY

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

21. Total number of acres in this lease: 3111.74

22. Date Plug Back, Deepening, Workover or Drilling Operations: Commenced 04/09/2012 — Completed 06/30/2012

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

GAU SC-378

24. Location of well, relative to nearest lease boundaries: 2594.0 Feet From East Line and 3585.0 Feet from North Line of the HORIZON PROPERTIES Lease

25. Elevation (DF. RKB, RT. GR ETC.): 229 GL

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

27. Top of Pay: 11712 MD:11966

28. Total Depth: 12562 MD:18115

29. P. B. Depth: 12485 MD:16984

30. Surface Casing Determined by: Field Rules [X] Recommendation of T.D.W.R. [X] Railroad Commission (Special) [ ] Dt. of Letter 04/02/2012 Dt. of Letter

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: SCAN DRILL

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 | 94.0 | 3016 | | A/H 2580 | 17 1/2 | SURFACE | 4759.6 |
| 9 5/8 | 94.0 | 10875 | | A/H 842 | 12 1/4 | SURFACE | 17400.0 |
| | | | | | | | |
| | | | | | | | |

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 L1 12577 | To 16948 |
| From | To |
| From | To |
| From | To |

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

| Depth Interval | | Amount and Kind of Material Used |
|---|---|---|
| 12577.0 | 16948.0 | 4,730,360 LBS. OF PROPANT WITH 65,194 BBLS WATER IN 12 STAGES |
| | | |
| | | |
| | | |

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

| Formations | Depth | Formations | Depth |
|---|---|---|---|
| TAYLOR | 10887.0 MD: 11141.0 | | |
| PECAN GAP/ANACACHO | 11222.0 MD: 11476.0 | | |
| AUSTIN CHALK | 11712.0 MD: 11966.0 | | |

REMARKS: N/A